Construction News

RAILWAYS—STEAM AND ELECTRIC

Proposed Work

North Carolina—Bonds voted by Chapel Hill and Bingham townships, Orange County, to aid Alamance, Durham & Orange Ry. & Electric Co. to build line from Ossippee to Durham. Junius Harden, Burlington, Pres.

North Carolina—Piedmont & Northern Ry. Co. plans extension of line from Gastonia to Belmont. E. Thomason, Charlotte, Vice-Pres. and Gen. Mgr.

Alabama—Florence & Huntsville Interurban Ry. Co. is having surveys made for line from Florence to Elk River, about 27 miles. T. H. Allen, Florence, Secy.

Mississippi—Gulfport & Mississippi Coast Traction Co. will rebuild its line, recently damaged by hurricane, between Biloxi and Pass Christian, about 30 miles. W. F. Gorenflo, Mgr.

Mississippi—Hattiesburg Traction Co. plans extension of line to Mississippi Woman's College, Hattiesburg. H. F. Wheeler, Gen. Mgr.

Ohio—East Linden Electric Ry. Co. has asked City Council, Columbus, for franchise for construction of two lines.

Indiana—Ft. Wayne, Secatur & Southern R.R. Co. plans extending its Ft. Wayne & Springfield Ry. line.

Indiana—Goshen, Fort Wayne & Northern Interurban Ry. Co. plans line through Albion. Clarence E. Tasher, Goshen, is interested.

Michigan—Bond issue of $3,300,000 has been ordered by Michigan R.R. Commission for construction of line from Detroit to Owosso by Detroit, Pontiac & Owosso Ry. Co. Oliver H. Lau, Detroit, is interested. Noted July 29.

Illinois—Jacksonville Ry. & Light Co. will relay its tracks on South Main St. from Norton Ave. to Michigan Ave., Jacksonville. H. J. Vance, Peoria, Pur. Agt.

Illinois—Illinois Terminal R.R. Co. plans extension of line from Edwardsville to East Carondelet. H. H. Ferguson, Alton, Gen. Mgr.

Minnesota—Great Northern Ry. Co. plans extension of line from Milaca to Hill City along west side of Mille Lacs lake. A. H. Hogeland, St. Paul, Ch. Engr.

Minnesota—Electric Short Line Ry. Co. plans 25 miles of additional track.

Minnesota—Great Northern Ry. Co. contemplates cut-off of line from Hutchinson, Minn., to Redwood Falls, Wabasso, Tracey, Currie, Slayton and Hardwick to Garretson, S. D. A. H. Hogeland, St. Paul, Minn., Ch. Engr.

Kansas—Saline-Northern R.R. Co. contemplates extension of its line from Osborne. E. A. Tennis, Salina, is interested.

South Dakota—South Dakota & Western Ry. Co., recently incorporated with $1,000,000 capital, by W. L. Bruce, W. E. Heaton and J. J. Dorr, will build line from Mitchell to Brule, via Platte.

South Dakota—See item under "Minnesota."

Missouri—Wabash R.R. is having surveys made for line from Orrick to Missouri City. R. H. Howard, St. Louis, Ch. Engr.

Arkansas—Arkansas, Louisiana & Gulf R.R. Co. contemplates railway between Pine Bluff and Monticello. Crossett Lumber Co. is interested. O. F. Cole, Crossett, Ch. Engr.

Arkansas—Gould Southwestern Ry. Co. plans extension of line to Rison or Fordyce, then north to Pine Bluff. W. H. Roberts, Gould, Gen. Mgr.

Texas—Dallas Southwestern Traction Co. is having survey made for line from Glen Rose to Stephenville. E. P. Turner, Gaston Bldg., Dallas, Pres.

Texas—Houston, Richmond & Western Traction Co. will soon begin construction of line between Houston and San Antonio.

Oklahoma—Clinton & Oklahoma Western Ry. Co. contemplates extension of line from Strong City to Guymon, Okla. and Canadian, Tex., about 150 miles. Guy V. McClure, Clinton, Ch. Engr.

Oklahoma—Sapulpa & Oil Field R.R. Co. plans line from Depew to Drumright, via Cushing oil fields. Bridges will be constructed. C. F. Hopkins, Salpulpa, Okla., Gen. Mgr.

Colorado—Arkansas Valley Ry., Light & Power Co., Pueblo, will construct line from Pueblo to state line in Arkansas Valley. W. F. Raber, Pueblo, Vice-Pres. and Gen. Mgr.

Colorado—Denver & Rio Grande R.R. is making surveys for line from Alamosa to Durango. J. C. Gwyn, Denver, Ch. Engr.

Idaho—Spokane & Inland Empire R.R., has been granted franchise by City Council, for single-track steam and electric railway in Cœur d'Alene. A. M. Lupfer, Portland, Ore., Ch. Engr.

Utah—Ogden, Logan & Idaho Ry. plans improvements and extensions to line. Estimated cost, $200,000. P. D. Kline, Ogden, Gen. Mgr.

Washington—C. D. Hillman, Seattle, is back of a movement to build line from Olympia to Boston Harbor, about six miles.

Oregon—Oregon, California & Eastern Ry. Co. recently incorporated, will build 400 miles of standard gage line in central Oregon. Robert C. Sterahorn, Portland, interested.

Oregon—City Council, Medford, has allowed Southern Oregon Traction Co. to abandon its Siskiyou Heights extension and construct line on Hillcrest Rd. touching Higheroft, Laurelhurst and Queen Anne additions. C. G. Bullis, Medford, Gen. Mgr.

Oregon—Portland & West Coast R.R. & Navigation Co. has been offered bonus by citizens of Newport of $100,000 to build first ten miles of line from Newport to Portland.

California—Surveys are being made by Engels Copper Co., Taylorsville, for narrow gage railway from its mine to connect with Western Pacific Ry. near Keddie.

California—Council of Los Angeles granted franchise to Pacific Electric Ry. Co. to construct single-track line on portions of Figueroa St., Denver Ave., Hoover St., Menlo Ave. and Vermont Ave. Noted Sept. 9.

Calif.—San Jose R.R. Co. granted franchise for electric railway in San Jose.

New Brunswick—St. John & Quebec Ry. has been taken over by Provincial Government and will complete line between Gagetown and Centerville. F. P. Gutelius, Moncton, Gen. Mgr.

Manitoba—Brandon Municipal Ry. Co. will soon commence construction of line on College Ave. and 18th St., Brandon.

Bids in and Contracts Awarded

West Virginia—Chesapeake & Ohio Ry. Co. awarded contract to J. C. CARPENTER & MAJOR BROS., for double-tracking between Greenlee and Balcony Falls. B. T. Jellison, Richmond, Va., Pur. Agt.

Michigan—Contract awarded to SMITH-BYERSAPARKS CO., by White Pine Mining Co., Ontonagon for two miles of spur track from its mine to St. Paul R.R.

Minnesota—Northern Pacific Ry. Co. awarded contract to F. A. BAXTER, Superior, Wis., for spur track to Hillcrest mine near Ironton. F. G. Prest, St. Paul, Pur. Agt.

California—Pacific Electric Ry. awarded contract to ROBERT SHERER & CO., Pacific Electric Bldg., Los Angeles, for grading roadbed for line between Hawthorne and Ionia Ave., Los Angeles, on Redondo via Watts line. Estimated cost, $20,000. J. McMillan, Los Angeles, Gen. Mgr.

LIGHT, HEAT AND POWER

Proposed Work

N. Y., Syracuse—Syracuse Lighting Co. will construct three reinforced-concrete substations.

Fla., Titusville—Citizens defeated $35,000 bonds for purchase of Titusville Electric Light Co. L. W. Doolittle, Mayor.

Ala., Fairhope—See item under "Water Works."

Miss., Jackson—R. L. Benson, Chicago, Ill., owner of power plant of Capital Light & Power Co., plans expenditure of between $10,000 and $15,000 for improving same.

La., Lake Charles—J. G. Boyle and J. G. Bessler granted franchise to supply city with gas. Plant will be constructed at estimated cost of $100,000.

Tenn., Cumberland Springs—(Tullahoma post office)—Cumberland Springs Co. contemplates electric-light plant. Noted Oct. 14 under Cumberland Springs, Ga.

Ky., Cynthiana—Lexington Utilities Co., Lexington, has taken over plant of Cynthiana Electric-Light Co. and will improved same. Noted Sept. 9.

Ky., Danville—Danville Light & Power Co. plans to extend its service to Lancaster, Ky., about ten miles.

Ky., Louisville—Louisville Gas & Electric Co. will build substation at Bardstown Rd. and Stevens Ave. Estimated cost, $150,000.

Ky., Mayfield—Election will be held Nov. 2 to vote on purchase of Mayfield Electric Light Plant and Water-Works.

Ohio, Cleveland—Tropical Oil & Paint Co. will build power plant at 1244 West 70th St. Estimated cost, $5,000.

Minn., Brownsdale—H. C. Volkman has applied for franchise to install and operate electric-light plant.

Minn., Deer Wood—Cuyuna Range Power Co. plans to enlarge its plant.

Minn., Raymond—Citizens voted to construct light and power station.

Iowa, Fairbank—Election will be held Nov. 1 to vote to build electric-light plant.

Kan., Attica—Contract will soon be awarded for improving electric-light plant and water system. Estimated cost, $30,000. Noted July 29 and Sept. 23.

Kan., Bucklin—(Official)—Election will be held Oct. 28 to vote $10,000 bonds for improving electric-lighting system. Noted Oct. 7.

Kan., Preston—Citizens will vote to construct municipal electric-light plant.

S. D., Volin—Company being organized to install and operate electric-light and power plant.

N. D., Washburn—Franchise granted Washburn Light & Power Co. for electric-light and power plant.

Mont., Glasgow—Citizens voted $18,000 bonds for improvements to electric-light plant. Noted Aug. 12.

Mo., Poplar Bluff—Bids will be received by H. H. Wilcox, City Clk., until 2 p.m., Nov. 3, for municipal electric-light and power plant. (See adv.)

Tex., Brownwood—Texas Power & Light Co., Dallas, will build transmission line from Brownwood to Comanche.

Tex., Bryan—Fountain Bros. applied to City Council for franchise to construct electric-light and power plant.

Tex., Edgewood—J. W. Freeman, Kilgore, contemplates electric-light plant.

Tex., Greenville—Plans being considered for extending municipal street lighting system.

Okla., Muskogee,—Bonds for $350,000 voted for municipal pipe line to convey natural gas to Muskogee.

Okla., Oilton—Oklahoma Natural Gas Co. contemplates pipe line from wells near Cushing to Guthrie via Stillwater.

Okla., Sapulpa—Citizens contemplate pipe line to gas wells. Estimated cost, $20,000.

Colo., Limon—Denver interests have requested franchise from City Council for electric-light plant.

Idaho, Kendrick—Plans being prepared for electric-lighting system. Estimated cost, $8,000.

Idaho, Twin Falls—James McMillan has been granted franchise for gas plant.

Calif., Escondido—Board of City Trustees plans municipal electric-light and power plant and gas manufacturing plant.

Calif., Red Bluff—Northern California Power Co. plans expenditure of $10,000 for enlarging its gas plant.

Ont., Cobalt—Bids will be received by William Carter, Secy., Box 877, Cobalt, until Oct. 25, for heating system in public school at Giroux Lake.

Ont., Petrolia—Council plans to take over electric-light plant, at $11,280.

Ont., Toronto — Toronto Hydro-Electric Commission plans new sub-station at Gerrard St. and Carlew Ave. Estimated cost, $60,000.

Bids In and Contracts Awarded

N. Y., New York—(Borough of Bronx)—(Official)—Contract for substation for Interboro Rapid Transit Co. awarded to JOHN B. ROBERTS, 1 Madison Ave., New York, N. Y. Estimated cost, $50,000.

Ohio, Cincinnati—Contract for new boilers for Ohio National Guard Armory, Freeman St. awarded to TUDOR BOILER CO., Cincinnati, at $8,980. Noted Sept. 9.

Ohio, Cleveland—Contract for heating system in Division Ave. pumping station awarded to CHAFER CO., Cleveland, at $11,250.

Ohio, Toledo—(Official)—Contract for steam heating and ventilating system for present building of Toledo University and for addition at Illinois and 11th St. awarded to JOHN PISCH CO., Toledo, at $19,790. Noted Oct. 7.

Iowa, Webster City — Contract for electric-light plant awarded to HAWKEYE CONSTRUCTION CO., at $4300.

Neb., Blair—(Official)—Contract for electric-light plant awarded to McGRAW CO., Omaha, at $22,490. Noted Oct. 7.

Ont., Preston—Contract for heating plant at Hurlbut shoe factory awarded to BERNHARDT & SPALDING.

BRIDGES

Proposed Work

Conn., Bridgeport—Grand St. and East Washington Ave. Bridge Commissions have retained J. B. Strauss, Chicago, Ill., to prepare plans and supervise construction of bridges at Grand St. and East Washington Ave. Estimated cost, $220,000 and $130,000 respectively.

Conn., New Hartford—Appropriation of $10,000 made by Town Board for bridge at Satan's Kingdom.

N. Y., Albany—State will build bridge over Rondout Creek between Kingston and Port Ewan to connect State Highway between Albany and New York. Estimated cost, $220,000.

N. Y., Buffalo—Jacob Dold Packing Co. will build car trestle on Howard Ave. Estimated cost, $10,000.

N. Y., Buffalo—Plans being considered by Public Service Commission for Harlem Ave. viaduct. Estimated cost, $400,000.

N. J., Livingston—Bids will be received by Frederick A. Reimer, County Engr., Newark, until 3 p.m., Oct. 25, for bridge on Hobart Gap Rd. over Canoe Brook.

Penn., Mooresburg—Bids being received by Philadelphia & Reading Ry. for concrete bridge on line through Mooresburg.

Md., Towson—Bids will be received by County Commissioners until Oct. 28 for bridge over Dead Run on Franklin Rd.

Va., Lynchburg—(Official)—Bids will soon be received for bridge across James River at Lynchburg. Estimated cost, $250,000. B. H. Davis, 7 Batterly Pl., New York, N. Y., Consult. Engr. Noted Oct. 7.

N. C., Biltmore—City plans bridge across Swannanoa River. Charles E. Waddell, Engr.

N. C., Kinston—Bids will be received by County Commissioners until Nov. 1 for bridge over Neuse River at Caswell St. Estimated cost, $10,000.

Ga., Atlanta—Fulton County and Atlanta contemplate 400-ft. viaduct to connect North Boulevard and Piedmont Park. R. M. Clayton, Ch. Engr.

Ga., Blairsville—Bids will be received by V. I. Butt, Ordinary, Union County, until Oct. 23, for steel bridge across Notla River to be known at Thompson Bridge.

Fla., De Land—See item under "Streets and Roads."

Miss., Columbus—Bids will be received until Nov. 1 by Lowndes County Supervisors for 100-ft. steel or concrete bridge, three wooden bridges and one concrete culvert. C. L. Wood, County Bridge Engr.

Miss., Leakesville—Bids will be received until Nov. 3 by Greene County Supervisors for steel bridge and iron highway bridge across Chickasawhay River. S. R. McKay, Clk.

La., Estherwood—Police Jury plans bridge across Medlanka River. Estimated cost, $4,000.

Tenn., Chattanooga—(Official)—Southern Ry. postponed construction of bridge over tracks at Oak St. indefinitely. Noted Oct. 7.

Tenn., Elizabethtown—Bids will be received until 1 p.m., Oct. 29, by L. D. Gasteiger, Secy., Rd. Comrs. of Carter County, for constructing a number of bridges.

Tenn., Loudon — Loudon County Commissioners granted franchise to F. C. Ferguss, J. H. Jollick and T. H. Baker for toll bridge across Tennessee River.

Tenn., Maynardville—See item under "Streets and Roads."

Ky., Covington—Bids will be received by J. Mason Howk, Comr. of Pub. Property, until 10 a.m., Oct. 28, for bridge piers for bridge to carry duplicate supply main of Licking River at a point approximately 150-ft. south of Louisville & Nashville Ry. bridge. Noted Aug. 26. (See adv.)

Ohio, Bridgeport—Bids will be received about Oct. 25 for repairing two bridges. Estimated cost, $20,000. C. C. Hoffner, City Clk.

Ohio, Cincinnati—Bids will be received by Philip Fosdick, Dir. of Pub. Ser., until noon, Oct. 25, for widening existing bridge on Montgomery Rd.

Ohio, Upper Sandusky—Bids will be received until 11:30 a.m., Oct. 28, by J. Marguerat, Audr., Comrs. of Wyandot County, for substructure of bridge over Sandusky River, Tymochtee Township.

Ind., Anderson—Bids will be received until 10 a.m., Oct. 27, by Commissioners of Madison County, for two additional steel spans for bridge across White River on North Main St. J. B. Benefiel, Audr. Noted Sept. 23.

Ind., Wabash—(Official)—Bids will be received by D. Showalter, Audr., until 1:30 p.m., Nov. 3, for bridge over Wabash River at Wabash. Estimated cost, $40,000. A. W. Grosvenor, Ft. Wayne, Engr.

Mich., Hastings—Bridge will be constructed over Little Thornapple River near county line by Town Boards of Thornapple Township in Barry County and Caledonia Township in Kent County. Estimated cost, $5,000.

Minn., Duluth—City plans to construct two bridges. Estimated cost, $15,000.

Minn., Minneapolis—Bond issue of $85,000 authorized by City Council toward work of concrete arch bridge across Mississippi River at Third Ave., S.

Kan., Hutchinson—Preliminary plans prepared and bids will be received about Jan. 1 for reinforced-concrete bridge over Arkansas River at Hutchinson. Estimated cost, $45,000. W. B. Harris, County Engr. Noted Oct. 14.

Kan., Iola—Plans being prepared by W. S. Gearhart, State Engr., Kansas Agricultural College, Manhattan, for three reinforced-concrete bridges.

Kan., Iola—Bids will be received until noon, Nov. 10, by Commissioners of Allen County, for replacing and repairing McFarlan Bridge.

Kan., Mankato—Bids will be received by County Clerk until noon, Oct. 26, for steel truss bridge with 80-ft. span and 16-ft. roadway.

Kan., Nickerson—Commissioners of Reno County contemplate reinforced-concrete bridge estimated to cost $30,000. P. Peck, Abbeyville, Chn.

Kan., Salina—Commissioners of Salina County plan bridge over Smoky River. W. S. Farier, County Engr.

S. D., Yankton—Election will soon be held to vote $300,000 bonds for railroad bridge across Missouri River.

Mo., Gasconade—Missouri-Pacific Ry. plans expenditure of $60,000 for draw span in bridge over Gasconade River.

Mo., Joplin—(Official)—Bonds for $13,500 sold for North Main St. viaduct. J. J. McAfee, City Engr. Noted Oct. 7.

Mo., Maryville—Election will soon be held in Nodaway County to vote $100,000 bonds for bridges.

Mo., Wellington—See item under "Streets and Roads."

Tex., Harrisburg—Bids will be received by H. L. Washburn, County Audr., until Nov. 1, for bridge over Brays Bayou.

Tex., Palestine—International & Great Northern Ry. Co. and city will build steel viaduct from Spring St. into Reagan Park. O. H. Crittendon, Houston, Ch. Engr. Noted Aug. 5.

Okla., Antlers—Bids will soon be received for five steel bridges in Pushmataha County. Estimated cost, $40,000.

Okla., Chandler—Bids will be received until 10 a.m., Oct. 25, by J. C. Pringley, Clk. of Lincoln County, for four steel bridges across Main Ditch in Deep Fork Drainage District No. 1.

Okla., Guthrie—Plans submitted by J. A. Rankin, Engr., for bridge across Cimarron River near Guthrie. Estimated cost, $18,000.

Ariz., St. Johns—Election will soon be held to vote $75,000 bonds for bridges.

Wash., Seattle—Bids will be received about Nov. 1 for bridge over Lake Washington Canal at 10th Ave. A. Rapp, City Bridge Engr.

Calif., Cloverdale—Town Board plans two bridges, one at First and Main St. and the other at Third St.

Calif., El Centro—Bids will be received until 2 p.m., Nov. 1, by California Highway Commissioners, 515 Forum Bldg., Sacramento, for reinforced-concrete bridge across Myers Creek. C. C. Carleton, Act. Secy.

Calif., **Merced**—Bids will soon be received by Board of Supervisors of Merced County for reinforced-concrete bridge across Santa Rita Slough, Supervisorial District No. 5. Estimated cost, $6,000.

Calif., **San Jose**—(Official)—Bids will be received by Board of Supervisors of Santa Clara County, Courthouse, until 11 a.m., Oct. 25, for reinforced concrete bridge on New Ave.

Calif., **Sacramento**—(Official)—Bids will be received at office of California Highway Commission, 515 Forum Bldg., until 2 p.m., Nov. 1, for reinforced-concrete bridge across Myers Creek, Imperial County.

Bids In and Contracts Awarded

Maine, **Brownsville**—Contract for concrete bridge across Pleasant River awarded to SANDERS ENGINEERING CO., Portland, at $11,000.

Penn., **Lewistown**—(Official)—Contract for bridge over Kishacoquilla Creek on Dorset St. tension awarded to R. R. MYERS, Lewistown, at $8,900. Noted Sept. 23.

Penn., **Uniontown**—(Official)—Contract for bridge over Jacobs Creek at West Overton between Greensburg and Fayette County awarded to HARVEY & WATSON, Mt. Washington, at about $8,000. Noted Sept. 2.

W. Va., **Brandywine**—Contract awarded to FARRIS BRIDGE CO., Charleston, at $5,600, by Pendleton County Commissioners for concrete bridge.

W. Va., **Wheeling**—Contract for two concrete bridges awarded to CLATTERTON & BRADY, Sistersville, at $10,000.

S. C., **Beaufort**—(Official)—Contract for repairs to two piers of Whale Branch Bridge and new bridge between St. Helena and Ladies Islands awarded to CAROLINA CONSTRUCTION CO., Columbia, at $8,952. Noted Sept. 16.

Ohio, **Milford**—Contract for bridge over East Fork of Little Miami River in Union and Miami Townships awarded to ROCHESTER BRIDGE CO., at $9,289. Noted Sept. 9 and 23.

Ind., **Crown Point**—(Official)—Contract for pony truss bridge over Hart Ditch, Brown St., Munster, awarded to BARNES & SHEARER, Hobart, at $4,696. Noted Sept. 23.

Ind., **Salem**—Contract for five concrete bridges awarded to MONTGOMERY-PARKER CO., Hatfield, at $7,000.

Ill., **Lake Bluff**—Contract for concrete work for bridge on Sheridan Rd. awarded to MODERN ENGINEERING & CONCRETE CO., steel work to KENWOOD BRIDGE CO. Estimated cost, $6,000.

Minn., **Kenyon**—Contract for two bridges and culverts in Wanamingo Township awarded to KENYON CONCRETE & CONSTRUCTION CO.

Kan., **Lawrence**—Contract for reinforced-concrete bridge across Kansas River at Lawrence awarded to MISSOURI VALLEY BRIDGE & IRON CO., Leavenworth, at $199,910. Noted Aug. 12 and Oct. 14.

Mont., **Billings**—Contract for steel bridge over Tongue River awarded to SECURITY BRIDGE CO., Minneapolis.

Ark., **Arkadelphia**—Contract awarded to HOPE BRIDGE CO., Hope, by Clark County Commissioners for two steel bridges, one across Scrouge Creek in Southfork Township and one on Gurdon and Okolona Rd.

Okla., **Lehigh**—Contract for three bridges in Coal County awarded to WESTERN BRIDGE CO., Sherman, Tex. Estimated cost, $6,000.

Okla., **Pawnee**—All bids received for Lankard Bridge, in Section No. 20, Township 22 rejected.

Ariz., **Florence**—Contract for two concrete bridges across Gila River near Winkleman awarded to TOPEKA BRIDGE & IRON CO., Topeka, Kan., at $46,595. Noted Oct. 7.

Calif., **Red Bluff**—Contract for three concrete bridges on State Highway awarded to ROSS CONSTRUCTION CO., Sacramento at $17,000. Noted July 22 and Aug. 19.

Calif., **San Andreas**—Contract for concrete bridge near San Andreas awarded to BLUXOME & CO., San Francisco, at $5,000.

Calif., **San Bruno**—See item under "Sewers."

Calif., **San Luis Obispo**—Contract for steel bridge over Paso Robles Creek awarded to GUTLEBEN BROS., New Call Bldg., San Francisco, at $11,733.

WATER WORKS

Proposed Work

Vt., **Burlington**—Water system will be extended. Estimated cost, $25,000.

Mass., **Fall River**—Commission on Water Supply reported in favor of system costing $3,000,000.

Mass., **Lynn**—Bids will soon be received for pumping station at Ipswich River.

Conn., **Hartford**—(Official)—Bids will be received until 3 p.m., Nov. 1, by Board of Water Commissioners for work under Contracts Nos. 14 and 15 for clearing Neapug reservoir basin. Caleb Mills Saville, Ch. Engr. (See adv.)

N. Y., **Hudson**—Bonds for $10,000 voted for water mains.

N. Y., **New York**—(Borough of Manhattan)—Bids will be received by W. Williams, Comr. of Water Supply, Gas and Electricity, until Oct. 22, for furnishing c.-i. pipe, special and valve box castings, cast steel castings and valves.

N. Y., **Yorktown**—Bids will soon be received by I. G. Harris, Supt. Monhansic State Hospital, for water system and sewage-disposal plant. Estimated cost, $300,000.

N. J., **Jersey City**—Bids will be received until 11 a.m., Oct. 28, by Board of Commissioners for specials, hydrants, connection plugs, caps, sleeves, etc. Michael I. Fagen, City Clk.

N. J., **Waterloo**—(Official)—Citizens do not contemplate dam at outlet of Junius Pond. Jacob Brooks, Clk. Noted Oct. 7.

Md., **Hagerstown**—Washington County Water Co. has increased its capital stock to provide $150,000 for improving water system and $400,000 for building reservoir.

N. C., **Durham**—City plans water system. G. C. White, Member Bd. of Aldermen.

S. C., **Columbia**—Citizens voted $500,000 bonds for extending water and sewer systems. Noted Sept. 23.

Ala., **Fairhope**—Town plans to take over water system and install electric-light plant. Estimated cost, $12,000.

Ala., **Florence**—Election will be held in November to vote on $200,000 bonds for purchase and improvement of water system.

La., **Covington**—Election will be held to vote on bonds for water and sewer systems. A. Kramer, Magnolia, Miss., Engr.

La., **Oakdale**—Bids will be received about Nov. 1 for water system. R. E. Ricketts, City Secy. Estimated cost, $30,000. Noted Oct. 14.

Ky., **Mayfield**—Election will be held Nov. 2 to vote on purchase of Mayfield Water Works.

Ohio, **Cleveland**—Election will be held Nov. 2 to vote on $2,000,000 bonds for preventing pollution of Cuyahoga River and Lake Erie.

Ohio, **Cleveland Heights**—(Warrensville post office)—See item under "Sewers."

Ohio, **Dayton**—Bids will be received by J. E. Barlow, Dir. of Pub. Ser., until Oct. 28, for one 20,000,000-gal. low service, steam driven pumping unit at Keowee St. pumping station.

Ohio, **Tiffin**—(Official)—Tiffin Water-Works Co. will build concrete dam by day labor. Noted Oct. 7.

Ind., **Brookville**—Bonds for $20,525 sold for water works.

Ind., **Wakarusa**—State Public Service Commission granted permission to Wakarusa Water Co. to issue $20,000 bonds for water system.

Mich., **Menominee**—Election will be held Nov. 1 to vote on $285,000 bonds for either purchase of property of Menominee Water Co. or for construction of municipal system.

Mich., **Saginaw**—Election will be held Dec. 2 to vote on $750,000 bonds for water system.

Ill., **Aurora**—Construction of new reservoir contemplated by Board of Public Works.

Ill., **Rankin**—Election will be held Oct. 30 to vote on $6,000 bonds for water system.

Ill., **Springfield**—Improvements to water-works and fire department recommended by National Board of Underwriters. Estimated cost, $200,000.

Ill., **Wheaton**—(Official)—Board of Local Improvements received estimates for improvements to water system from L. G. Ruddock, City Engr. Estimated cost, $34,620. Noted Sept. 2.

Wis., **Kenosha**—Bids being received for pumping plant and filtration plant for Board of Public Works. B. C. Brennan, City Hall, Clk. Estimated cost, $100,000.

Wis., **Two Rivers**—Bids will be received until 7:30 p.m., Oct. 23, by Water and Light Commission for 6-in. water main in Monroe Ave., Jackson St., and 4-in. main in 24th St. Joseph Doleysh, Secy.

Minn., **St. Cloud**—Water mains will be laid by city by day labor. C. H. West, City Engr. Noted Sept. 16.

Minn., **Thief River Falls**—Citizens defeated $38,000 bonds for purchase of municipal water system.

Kan., **Manhattan**—Bonds for $69,500 for water system voted by citizens. Bids being received by F. Walters, City Engr. Noted Sept. 30.

Kan., **Morrill**—Bonds for $10,000 voted by citizens for water system.

Neb., **Bayard**—Bids will be received until Nov. 15 by City Clerk for water system. Estimated cost, $12,500. Selzer & Finley, Scotts Bluff Engr. Noted Sept. 23.

S. D., **Humboldt**—Bonds for $10,000 for water system sold.

N. D., **Ellendale**—Election will be held Oct. 30 to vote on $9,000 bonds for water system. John King, City Audr.

Mont., **Brondview**—City will build water system. M. Soronson, Chn. of Comrs.

Mont., **Glendive**—Election will be held in spring to vote on $70,000 bonds for rebuilding water system.

Mo., **Odessa**—Black & Veatch, 507 Interstate Bldg., Kansas City, making surveys for water system and sewer system.

Tex., **El Paso**—City plans about ten additional wells near pumping station.

Colo., **Durango**—City Council will build concrete dam at lower reservoir. A. F. Hood, City Mgr.

Colo., **Loveland**—Improvement of water system contemplated by City Council.

Colo., **Westcliffe**—Election will soon be held to vote bonds for water system.

Idaho, **Star**—McCullah & Swearinger, Engrs., submitted report on water system.

Idaho, **Ucon**—Citizens voted $5,000 bonds for water system. O. W. Steele, Chn. Water Comm.

Wash., **Seattle**—Council contemplates expenditure of $75,000 for standpipe in West Seattle.

Ore., **Culver**—See item under "Canals, Ditches and Irrigation."

Ore., **Eastside**—Election will be held in December to vote on $50,000 bonds for municipal water system.

Calif., **Santa Cruz**—Election will soon be held to vote on $100,750 bonds for water system.

Ont., Markham—Bids will soon be received by E. A. James, 57 Adelaide St., Toronto, for water system. Estimated cost, $25,000. Noted Sept. 30.

Man., Winnipeg—(Official)—Bids will be received until noon, Oct. 25, by S. H. Reynolds, Chn. of Coms., Greater Winnipeg Water District, 901 Boyd Bldg., Winnipeg, for portland cement. Estimated number of barrels, 200,000. (See adv.)

Sask., Watrous—Citizens contemplate water system. Estimated cost, $50,000.

B. C., Port Coquitlan—Towns plans to install municipal water system. Estimated cost, $35,000.

N. S., St. Andrews—City will build pumping station. Estimated cost, $35,000.

Bids In and Contracts Awarded

Mass., Boston—(Official)—Bids were received Oct. 11 for laying 15,000 ft. of water mains as follows: John Guarino, 45 Brook Ave., Roxbury, $10,308; Thomas Burke, 7 Shirley St., Roxbury, $10,905 and John T. Shea, Jr., Boston, $11,495.

Mass., Salem—Bay State Dredging Co., 247 Atlantic Ave., Boston, at $13,800 was low bidder for intake and gate house at Wenham Lake.

Penn., Tamaqua—Bids were received Oct. 5 for reservoir in Owl Creek as follows: Di Menna & DePaola, Inc., New York, N. Y., $71,437; M. A. Magan, Pottsville, $93,392; and Lovejoy & Wilson, Philadelphia, $104,368. Noted Aug. 12.

La., Gretna—Contract awarded to J. R. SUTHERLIN & CO., Kansas City, Mo., at $46,830, for water system. Noted Sept. 30.

Ohio, Cleveland—Contract awarded to GEORGE H. WORTHINGTON CO., at about $20,000, for water meters for Water Department.

Ohio, Cleveland—Contract for repairing pumps at Division pumping station awarded to ALLIS-CHALMERS CO., Minneapolis, Minn., at $35,000.

Ohio, Liverpool—Contracts for water system awarded as follows: Distributing and force main to J. I. DICK, Scottdale, Penn., at $94,472; excavating and reinforced-concrete work for river intake, pumping station and filtration plant to T. A. GILLESPIE CO., New York, N. Y., at $100,403. Chester & Fleming, Pittsburgh, Penn., Engr.

Ohio, Wilberforce—Contracts for improving water system awarded as follows: 80,000-gal. steel tank and tower to PITTSBURGH-DES MOINES STEEL CO., Pittsburgh, Penn., at $3,536; two steam pumps to WINEMAN PUMP MFG. CO., Columbus; hot water storage heater and softening plant to SHARTLE MACHINE CO., Columbus; well and connections to S. H. BOND. Estimated cost of work, $8,472. Noted Sept. 16.

Wis., Kenosha—Contract awarded to GRELING BROS., Green Bay, at $78,875, for lake intake and crib on Washington Island.

Iowa, Marcus—(Official)—Contracts awarded to DES MOINES BRIDGE & IRON CO., at $4,000, for 75,000-gal. tank on tower; FAIRBANKS, MORSE & CO., at $3,440, for 60 hp. oil engine, compressor, and centrifugal pump and to WARD & WEIGHTON, at $2,593 for pump house. Noted Sept. 30.

Iowa, Sidney—Contracts awarded by Water Works Board for improvements to water system as follows: ALAMO ENGINEERING CO., Omaha, Neb., $9,621 for water mains; AMERICAN CAST IRON PIPE CO., Kansas City, Mo., $8,122, for c.-i. pipe and to MERKLE-HINES MACHINERY CO., Kansas City, Mo., at $539 for hydrants. Noted Sept. 30.

Minn., Campbell—Contract awarded to WARD & WEIGHTON, Sioux City, Iowa., for water mains. Noted Sept. 23.

Minn., Minneapolis—(Official)—Contract awarded to NEW JERSEY PIPE CORPORATION, 50 Church St., New York, N. Y., for riveted steel pipe. N. E. Alexander, Pur. Agt. Noted Sept. 30.

Kan., Attica—(Official)—Contract awarded to BICKEL CONSTRUCTION CO., Kansas City, Mo., at $29,800, for water and electric-light systems. Noted Oct. 7.

Kan., Pleasanton—Contract awarded to F. D. MARTIN, Rialto Bldg., Kansas City, Mo., at $4,000, for water system.

Kan., Russell—Contract awarded to DES MOINES BRIDGE & IRON WORKS, Des Moines, Iowa, for laying water mains and to U. S. CAST IRON PIPE CO., Kansas City, Mo., at $34.15 per ton for c.-i. pipe. Noted Oct. 14.

S. D., Yankton—Contracts awarded to McLAIN & ELLERMAN, Yankton, at $5,577, for water mains and hydrants and to CHICAGO BRIDGE & IRON CO., at $3,400, for water tower and tank.

Wash., Seattle—Del Guzzo & Co., at $4,800, was low bidder for water mains in 50th Ave., N. E..

Calif., San Francisco—A. J. REEDER, at $31,675, awarded contract for clearing floor at Hetch Hetchy Valley.

Ont., Dundas—(Official)—Contract awarded to DICKSON BUILDING CO., Dundas, at about $7,000, for dam for water system. John L. Fry, Clk. Noted Oct. 7.

Ont., Ottawa—Contract awarded to LAURIN & LEITCH, Montreal, Que., at $194,000, by City Council, for pipe line. R. L. Haycock, Engr.-in-Charge. Noted Oct. 7.

B. C., West Vancouver—Contract awarded to COTTON CO. LTD., Vancouver, at about $90,000, for water system for Sisters Creek.

SEWERS

Proposed Work

Mass., New Bedford—(Official)—City will construct intercepting sewers by day labor. About $65,000 available for this work. Noted Oct. 7.

N. Y., Greenwich—(Official)—Citizens voted to issue $7,500 bonds for sewer pipe on Elman Ave., Main and Bridge St. Noted Sept. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., Room 2032, Municipal Bldg., until 2 p.m., Nov. 4, for tunnel relief sewer in West 46th St. from Hudson River to Seventh Ave.

N. Y., Syracuse—City Council plans new sewers in eastern section, W. T. Wooley, City Engr. Estimated cost, $155,000.

N. Y., Yonkers—Bids will soon be received for sewers in Prescott St., Paulding St., Fillmore St., Hyatt Ave., Lee Ave. and Sherman Ave.

N. Y., Yorktown—See item under "Water-Works."

N. Y., Yorktown Heights—Bids will be received by William B. Osgood, Pres., Bd. of Managers, New York State Training School for Boys, Dept. of Architecture, Room 1221, Woolworth Bldg., New York, N. Y., until 2:30 p.m., Nov. 3, for sewerage and sewage disposal plant. Noted Sept. 30. (See adv.)

N. J., South Orange—Plans prepared by Edmond R. Halsey, Engr., for storm sewers in Maplewood section. Estimated cost, $61,400.

Penn., Ashley—Bids being received by Borough Clerk, for storm sewer in Maxwell and Wyoming St., according to press reports.

Penn., Ingram—(Pittsburgh post office)—Bonds for $14,000 sold for sewer work.

Del., Newport—Election will be held in January, according to press reports, to vote on bonds for sewer system. S. W. Day, Secy.

Md., Rockville—(Official)—Bids will soon be received for sewers and sewage disposal plant for portions of Montgomery County in Little Falls Brook drainage area. E. B. Whitman, Consult. Engr. Noted Sept. 16.

Md., Silver Spring—Harry Stevens, Union Trust Bldg., Washington, D. C., preparing plans for sewer system. Estimated cost, $40,000. Noted Aug. 19.

W. Va., Kenova—Election will be held Nov. 6 to vote $55,000 bonds for sewer system.

S. C., Columbia—Bonds for $300,000 voted by citizens Oct. 5 for extending sewer system. Noted Sept. 16.

Fla., Eustis—Bonds for $60,000 voted by citizens for sewer system. Noted Aug. 16.

Fla., Tampa—(Official)—Bids will be received until 2 p.m., Oct. 26, by Allen Thomas, Clk., Bd. of Comrs. of Pub. Wks., for purchase of $75,000 bonds for sewers and internal improvements.

La., New Orleans—Bids will be received until noon, Dec. 3, by Sewerage and Water Board for labor-material-percentage contract.

Ky., Owensboro—Election will probably be held Nov. 2 to vote on $250,000 bonds for sewer system.

Ohio, Alliance—Bids will be received until Nov. 1 by James I. Rickard, Dir. of Pub. Service, for sewage-disposal plant. Chester & Fleming, Pittsburgh, Penn., Engr. Estimated cost, $40,000.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received by H. H. Canfield, Clk., until noon, Nov. 15, for sale of $38,426 bonds for sewers in Cedar Road District No. 3.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received by H. H. Canfield, Clk., until noon, Oct. 25 for sewers and water mains in various streets. F. A. Pease Engineering Co., Cleveland, Engr.

Ohio, Springfield—Bids will be received until noon, Nov. 1, by City Auditor, for purchase of $6,271 bonds for sewers. Noted Sept. 16.

Ohio, Youngstown—City plans sewer in Mill Creek Sewer District. Frank Lillie, Engr.

Mich., Hancock—City Council plans new sewer system for West Hancock.

Mich., Menominee—Council plans storm sewers.

Ill., Bloomington—Normal and Bloomington contemplate joint sewage-disposal plant.

Ill., East St. Louis—City Council will make repairs to sewers. Estimated cost, $37,000.

Ill., Jacksonville—Board of Local Improvements will build sewer in Independence Ave. and Hooker St.

Ill., Lemont—Board of Local Improvements plans sewers.

Ill., Rock Island—Bids will be received about Nov. 15 for sewer system and sewage-disposal plant and septic tank. Wallace Trichler, City Engr.

Wis., Fond du Lac—Plans being prepared by City Engineer for sewers in Washington, Morris, Ruggles, West Cotton and East St.

Wis., Manitowoc—Plans being prepared for sewer in Franklin and Sixth St. John Kelley, City Clk.

Wis., Milwaukee—City Council will build sewer in Richards St. Estimated cost, $8,000.

Wis., Stoughton—Bids will be received until Oct. 27 for sewers in various streets.

Iowa, Sioux City—City Council plans extension of storm water sewer in Lafayette St. to Missouri River.

Kan., Belleville—Citizens contemplate sewer system. Estimated cost, $40,000. W. L. Wineland, Mayor.

Kan., Cherryvale—Black & Veatch, Interstate Bldg., Kansas City, Mo., preparing plans for sewer system. Estimated cost, $20,000.

Kan., Hutchinson—Bids will soon be received for sanitary sewer for Hyde Park addition.

Neb., Haverlock—Bids will be received by A. J. Blount, City Engr., until 8 p.m., Nov. 5, for sewers in three districts.

Neb., Loup City—(Official)—Election will be held Nov. 9 to vote $6,500 bonds for sewer system. T. W. D. Wolfe, City Engr. Noted Oct. 7.

Tex., Lancaster—Bonds for $15,000 voted by citizens for sanitary and storm sewers. Noted Sept. 16.

Tex., Sherman—City contemplates sewer system and sewage-disposal plant. Charles Sayville, Dallas, Engr.

Colo., Edgewater — (Official) — Contract for sewer system will be awarded about Oct. 28. Estimated cost, $32,000. Noted Sept. 23.

Colo., Glenwood Springs—City plan sewers in Minturn and Lincoln Ave.

Idaho, Kellogg—City plans sewer work in Pressley addition. Estimated cost, $7,000.

Ore., Amity—City contemplates sewer system.

Calif., Fresno—A. Cronkite, City Engr., authorized to prepare plans for storm and sanitary sewers. Estimated cost, $15,000.

Calif., Los Angeles—Sewers will be constructed in 35th Pl., Van Ness Ave., Cimarron St. and 35th St.

Calif., Richmond—City Council plans sewer work. Estimated cost, $87,400. H. D. Chapman, City Engr.

Calif., Sacramento—City commission plans sewers in Freeport Rd., from Burnside to El Dorado Ave.

Ont., Hamilton—City plans to extend sewer system. Estimated cost, $35,000. A. F. Macallum, Engr.

Ont., Peterborough—City plans to construct sewers on Ribinson, Victoria and Aylmer St. R. H. Pearsons, Engr.

SEWERS

Bids In and Contracts Awarded

Mass., Boston—(Official)—Contract for Section 1, Deer Island Outfall sewer awarded to GEORGE M. BUYNE, 166 Devonshire St., Boston, at $43,370. Frederick D. Smith, City Engr. Noted Sept. 30.

R. I., Providence—(Official)—Bids were received Oct. 11 for sewers in various streets as follows: Bayard St., Antonio Aiello, at $522; River Ave., and Yorkshire St., Charles Crankshaw, at $12,729 and $8,477 respectively; Douglas Ave., Antonio Gonelli, at $1,256. Noted Oct. 7.

N. Y., New York—(Borough of the Bronx)—(Official)—Bids were received Oct. 14 for sewers in Starling Ave., Unionport Rd., McGraw Ave., and Pugsley Ave.: (Low bidders) Briggs & McLaughlin, $5,000; Salvatore Purificato, $5,000; Anita Construction Co., $5,000 and Williamsbridge Construction Co., $5,000.

N. Y., Utica—Contract awarded to A. W. FITCH at $3,358 for storm water sewers.

N. J., Atlantic City—(Official)—Contract for storm water drainage system awarded to JOSEPH FERRY & SONS, INC., Baltimore, Md., at $125,921. Noted Sept. 23.

Penn., Nanticoke—Contract awarded to D. M. ROSSER, for 6-in. brick sewer.

Tenn., North Chattanooga—Contracts awarded to O'SULLIVAN, LONG & HAGERTY, Bessemer, Ala., at $34,000, for 11 miles of 8- to 12-in. sewers and to GUILD & CO., James Bldg., Chattanooga, at $5,665, for 700 ft. of 5- to 9-in. brick sewer. Noted Oct. 7.

Ohio, Cincinnati—(Official)—All bids received for Duck Creek Intercepting sewer rejected. Noted Sept. 16.

Ohio, Martins Ferry — Contract awarded to ARCHER & SHANNAFELDT, Bellaire, for sewer in Elm St.

Ill., Galesburg—Contract awarded to D. E. KEELER CO., Davenport, Iowa, at $3,728, for sewers.

Wis., Appleton—(Official)—Contract for sewers in Richmond St. awarded to J. DELLMONN & CO., Appleton, at 77c. per ft. Noted Oct. 7.

Wis., Green Bay—Contract awarded to B. WAERZEGGERS, Green Bay, at $0.63 per ft. for 12-in. sewers in Oakland Ave. Noted Sept. 30.

Wis., Milwaukee—Contract awarded to ALEX PESTKA, for 12-in. sewer in Menlo Ave. Theodore B. Olson, Clk.

Wis., Racine—Contract for sewers in Carlisle Ave. awarded to PATRICK GAVAHAN, Racine, at $1.40 for 18-in., $1.28 for 15-in. and $1.10 for 12-in.

Iowa, Brooklyn—Contract awarded to PUBLIC SERVICE CONSTRUCTION CO., Omaha, Neb., at $22,194 and $10,274, for sewer system and disposal plant. Noted Aug. 12.

Iowa, Des Moines—Contract awarded to J. L. HAUSMAN, for extension of Ingersoll Run sewer and storm water sewer.

Iowa, Webster City—Contract for Cedar St. sewer awarded to HAWKEYE CONSTRUCTION CO., at $4,300.

Minn., Herman—(Official)—Contract for sewer awarded to BADGER CONSTRUCTION CO., Fargo, N. D., at $4,635. Noted Sept. 23.

Kan., Marysville—Contract awarded to INTER-MOUNTAIN BRIDGE & CONSTRUCTION CO., Tecumseh, Neb., at $8,157, for sewer work.

Neb., Bridgeport — Contract awarded to C. J. BURKE, Kearney, for 8,000 ft. of sewer. Noted Oct. 7.

Neb., Lincoln—Abel & Roberts, First National Bank Bldg., Lincoln, at $35,240, was low bidder for Antelope conduit for city.

S. D., Aberdeen—(Official)—Contract for sewers in Second St. awarded to A. A. DOBSON & CO., Aberdeen. Noted Sept. 30.

Ark., Lake Village—Contract for sewer system awarded to MCCREARY CONSTRUCTION CO., at $18,000.

Idaho, Mountain Home—Contract for sewer construction awarded to IDAHO HARDWARE & PLUMBING CO., Boise, and JOHN W. MORTON, Mountain Home. Estimated cost, $15,360. R. J. Newell, Engr.

Ariz., Mesa—(Official)—Contract for sewer system including 16 miles of sewers awarded to DOYLE BROS., Phœnix, at $51,778. Noted Sept. 30.

Wash., Seattle—(Official)—Contract for overflow sewer in First Ave., N. W., awarded to McDONALD & JONES, 410 Globe Bldg., Seattle, at $15,548. Noted Sept. 30.

Wash., Seattle—Del Guzzo & Co., at $6,200, low bidder for sewers in 50th Ave., N. E.

Ore., Forest Grove—W. C. Elliott, Portland, at $58,448, low bidder for sanitary sewer system. Noted Sept. 9.

Calif., San Bruno—Contract for storm sewers and bridges awarded to CHARLES J. LINDGREN, Monadnock Bldg., San Francisco, at $15,600.

Calif., Stockton—Contracts awarded to TIBBITTS PACIFIC CO., 16 California St., San Francisco, at $14,330 for storm water sewer in east end of city and to D. BISHOP, Stockton, at $16,419, for sanitary sewers in South and Edison St. Noted Oct. 14.

Calif., Visalia—Contract for sewer system awarded to M. MURPHY, Berkeley, at $40,500. Noted Sept. 30.

GARBAGE

Proposed Work

Del., Wilmington—New bids will be received by Board of Health for disposal of garbage for period of years.

Ohio, Akron—(Official)—Bids will be received until noon, Oct. 27, by Board of Control for removal of garbage to Akron garbage disposal plant on Cuyahoga St. C. P. Parker, Dir. of Pub. Serv.

Ind., Ft. Wayne—Board of Works retained Samuel A. Greenley, Milwaukee, Wis., to prepare plans for garbage incinerator. Noted Aug. 5.

Iowa, Mason City—Plans being prepared by E. J. Gones, Macon, Ga., for disposal plant. Estimated cost, $8,000.

Minn., Duluth—Council plans $50,000 bonds for garbage incinerator.

STREETS AND ROADS

Proposed Work

Mass., Woburn—Bids will be received by State Highway Commission, Boston, until Oct. 26 for 5,200 lin.ft. of road.

N. Y., Franklinville—Citizens voted $9,000 for paving Park Sq.

N. Y., New York—(Borough of Manhattan)—(Official)—Bids will be received by Marcus M. Marks, Borough Pres., until 2 p.m., Oct. 28, for regulating and paving and repaving various streets and avenues of the borough.

N. Y., New York—(Borough of Richmond)—(Official)—Bids will be received by Calvin D. Van Name, Borough Pres., Borough Hall, St. George, New Brighton, until noon, Oct. 26, for constructing cement sidewalks on Nelson Ave. from Amboy Rd. to a point about 1962 ft. east of east house line of Southfield Blvd. and Richmond Turnpike from Jewett Ave. to Little Clove Rd.

N. J., Atlantic City—County Board of Freeholders plans to pave Meadow Blvd. from Chelsea to Pleasantville. Estimated cost, $125,000.

N. J., Hackensack—Bids will be received by A. N. Morris and C. N. Cumberland, Comr. of Bd. of Chosen Freeholders of Bergen County, Courthouse, until noon, Oct. 29, for improving Passaic St. from Main St. to Maywood Borough line.

N. J., Newton—Bids will soon be received for paving Newton-Sparta and Ross's Corner-Sussex Rd. Estimated cost, $125,000. Harvey Snook, Engr.

N. J., Redbank—Bids will be received by Board of Chosen Freeholders of Monmouth County, Courthouse, Freehold, until 11 a.m., Oct. 27, for concrete road bed and sidewalks on Throckmorton's Fill.

Penn., Bridgeville—(Official)—Election will be held Nov. 2 to vote $15,000 bonds for paving. Noted Oct. 7.

Md., Denton—Bids will be received by County Commissioners until Nov. 1 for one mile of State Aid Highway upon or along Hillsboro-Denton Rd.

W. Va., Moundsville—Bids will be received until Oct. 23 by O. B. Bonar, City Clk., for paving Seventh St. from Lafayette to Western Ave. and Western Ave. from Seventh St. north.

N. C., Charlotte—Board of Aldermen appropriated $14,000 for paving streets.

N. C., Danbury—Election will be held Nov. 16 in Stokes County to vote $50,000 bonds for roads.

N. C., Durham—City contemplates voting $300,000 bonds for improving streets.

N. C., Greenville—County Commissioners will sell $100,000 road bonds Nov. 1.

Ga., Americus—Commissioners of Sumter County contemplate holding election to vote $100,000 bonds for road improvements.

Fla., Clearwater—Election will be held Nov. 16 in Pinellas County to vote $715,000 bonds for roads. Noted Sept. 9 and Oct. 7.

Fla., De Land—(Official)—Citizens voted to issue $250,000 bonds for roads and bridges. Noted Sept. 9.

Fla., Eustis—Citizens voted $40,000 bonds for roads. Noted Aug. 26.

Fla., Ft. Pierce—Commissioners of St. Lucie County will expend $58,675 for hard surfaced roads.

Fla., Jacksonville—Citizens voted $16,000 bonds for paving.

Fla., Monticello—Citizens of Jefferson County voted $100,000 bonds for Dixie highway.

Fla., Wauchula—City will construct 13 miles of sidewalks.

Ala., Mobile—Wilcox County plans expenditure of $15,000 for roads.

Miss., Canton—Board of Supervisors will issue $135,000 bonds for roads in Beat No. 1.

Miss., Columbus—(Official)—All bids received for 48 miles of highway improvement rejected. New bids will be received until 8 a.m., Nov. 8. G. Hauser, Jr., Engr. Noted Sept. 23.

Miss., Gulfport—Board of Supervisors of Harrison County will issue $200,000 bonds for road.

La., Monroe—Bids will be received until Nov. 5 by D. W. Faulk, City Secy., for improving various streets.

Tenn., Dover—Stewart County Commissioners will pave 140 miles of roads. Estimated cost, $200,000.

Tenn., Elizabethton—Bids will be received until 1 p.m., Oct. 29, by L. D. Gaspeiger, Secy. Rd. Comrs., for 70 miles of graded roads and repairing and completing roads already graded.

Tenn., Maynardville—Bids will be received until Nov. 8 by George N. Taylor, Union County Comr., for macadam roads and bridges.

Tenn., Sweetwater—Bids will be received until Nov. 15 by W. T. Lenoir, Mayor, for street improvements. Noted Sept. 9 and Oct. 7.

Ky., Bellevue—(Newport post office)—City contemplates bond issue for paving various streets.

Ky., Stanton—Powell County plans $25,000 bond issue for road.

Ohio, Canton—Plans will be prepared by W. E. Sarver, City Engr., for widening and repaving Tuscarawas St.

Ohio, Cheviot—(Cincinnati post office)—Bids will be received by Albert J. Deusing, Village Clk., until noon, Nov. 3, for improving North Bend Rd. from Woodbine Ave. to north line of Hirschberg & Kaplans Subdivision.

Ohio, Cleveland Heights—(Warrensville post office)—Bids will be received by H. H. Canfield, Clk., until noon, Oct. 15, for improving Coleridge, Corydon, Cottage Grove, Essex and Winton St. Estimated cost, $84,000.

Ohio, East Cleveland—Commissioners of Cuyahoga County plan to pave Euclid Ave.

Mich., Ann Arbor—City Council will prepare plans for paving Miller Ave. Manly Osgood, City Engr.

Mich., Belding—City plans paving Bridge St. with concrete.

Mich., Calumet—An appropriation of $4000 voted by the Eagle Harbor Township Board for highway work for coming year.

Mich., Dowagiac—Plans being considered for improving highway on Prairie Ronde St.

Mich., Hillsdale—Expenditure of $35,000 planned for paving Manning St.

Mich., Iron Mountain—County contemplates $75,000 annual road budget.

Ill., Hamilton—City Council will macadamize Ninth St, from Broadway to Keokuk St.

Wis., Elkhorn—City contemplates paving Walworth and Wisconsin St. A. C. Oleson, City Clk.

Wis., Green Bay—Bids will be received until 10 a.m., Oct. 25, by City Clerk for crushed stone on North Roosevelt St.

Wis., Superior—City Commissioners authorized $33,000 bond issue for street improvements.

Kan., Columbus—(Official)—Bids will be received until noon, Nov. 1, by Commissioners of Cherokee County, for grading and surfacing with gravel seven miles of county road between Columbus and Crestline.

Neb., Hastings—Bids will be received about Dec. 1 for paving 50 blocks with vertical fiber brick or asphaltic concrete. W. H. Fuller, City Engr.

Mo., Butler—Citizens plan to issue bonds to macadamize Butler-Nevada Rd.

Mo., Hillsboro—Election will be held Nov. 6 in Jefferson County to vote $500,000 bonds for roads and bridges. Noted Oct. 7.

Mo., Lexington—Lafayette County Commissioners will issue $55,000 bonds for roads in Wellington-Napoleon Rd. District.

Mo., Marshall—Citizens contemplate bond issue of between $800,000 and $1,000,000 for road construction. James C. Wonders, Washington, D. C., Highway Engr.

Mo., Sedalia—Bids will be received by F. T. Leaming, City Engr., until Nov. 1 for 9,200 sq.yd. of vertical fiber brick paving.

Mo., Springfield—All bids received for nine miles of road in Ingram Special Road District rejected. New bids will be received. Estimated cost, $20,000.

Mo., Wellington—Citizens voted $55,000 bonds for macadamizing 10 miles of road and for two bridges. Noted Sept. 30.

Tex., Batesville—Election will be held Nov. 2 in Zavalla County, Road Precinct No. 3 to vote $40,000 for roads. Noted Oct. 7.

Tex., Beaumont—Bonds for $85,000 sold for street improvements. Noted Sept. 9.

Tex., Fredericksburg—Citizens of Gillespie County Nov. 7 vote on $300,000 for roads.

Idaho, Orfino—City will expend $11,000 for paving and sidewalks. Robert Swadener, Engr.

Wash., Colville—Bids will be received by A. B. Sansborn, Audr., Comrs. of Stevens County, until Nov. 1, for improving about three miles of Springdale-Hunters Permanent Highway No. 2-A.

Wash., Pomeroy—Bids will be received until 10 a.m., Nov. 1, by Commissioners of Garfield County, for improving a portion of Permanent Highway No. 1.

Wash., Stevenson—(Official)—Bids will be received until 1:30 p.m., Oct. 23, by Charles H. Nello, County Audr., for constructing nine miles of Stevenson-Carson Rd. Noted Sept. 23.

Ore., Florence—Citizens voted $5,000 bonds for plank road from Florence to North Fork bridge.

Calif., Alameda—City Council appropriated $50,000 for streets improvements.

Calif., Hayward—City Council plans to macadamize several streets.

Calif., Oroville—Bids will soon be received for paving Montgomery St. from Lincoln St. to Fourth Ave. Estimated cost, $15,843. S. J. Norris, City Engr.

Calif., Richmond—City Council has authorized streets under tracks of Santa Fé R.R. at 16th St. Estimated cost, $7,000. H. D. Chapman, City Engr.

Calif., Sacramento—Plans prepared by Frank C. Miller, City Engr., approved by City Commissioners for paving Cypress Ave. from 37th St. to Upper Stockton Rd.

Calif., San Jose—Bids will be received until 11 a.m., Oct. 25, by Board of Supervisors of Santa Clara County, for improving Lincoln Ave. in Supervisorial District No. 4.

Ont., London—City plans to pave Wellington and Clarence St. with asphalt. H. A. Brazier, Engr.

Ont., Mimico—Movement being agitated to widen Lake Shore Rd. 85 ft. throughout length of municipality.

Man., Winnipeg—City will construct granolithic walks on Woodrow Pl., Manitoba, Sargent and Langside Ave. W. P. Brereton, City Engr.

B. C., Victoria—City Council plans concrete sidewalks on both sides of Prior St. between Hillside and Summit Ave. C. H. Rust, City Engr.

B. C., Victoria—City Council authorized sidewalks on Clawthorpe Ave. and Shakespeare St.

N. S., Halifax—F. W. W. Doane, City Engr., submitted report to Board of Control estimating cost of extending Morris St. at $5,500.

Bids In and Contracts Awarded

Conn., Darien—Contract for constructing Rings End Rd. and Norton Ave. awarded to WILKES-CASEY ENGINEERING & CONTRACTING CO., New Rochelle, N. Y., at $26,130.

N. Y., Albany—(Official)—Bids were received Oct. 15 at office of Superintendent of Public Works for highway north of West Shore R.R. at Port Gibson, Town of Palmyra, Wayne County, as follows: WILLIAM R. KINNEY, 25 South Pearl St., Albany, $3,568 (awarded contract); Fischett Bros., Clyde, $3,955; S. M. Ludingtons' Sons, Inc., Rochester, $3,991.

N. Y., New York—(Borough of Bronx)—(Official)—Lowest bids received for improving (a) Powell Ave. from Tremont Ave. to Zerega Ave., (b) Walker Ave. and former Main St. to easterly terminus of land acquired for West Farms Rd. to Eastern Blvd., (c) Rosedale Ave. from Walker to Tremont Ave., (d) Kingsbridge Terrace from Kingsbridge Rd. to filled grade south of West 299th St. were as follows: (a) Burnside Contracting Co., $12,105; (b) Anabel Construction Co., $76,333; (c) and (d) Municipal Asphalt Co., at $5,124 and $4,323 respectively.

N. Y., New York—(Borough of Manhattan)—(Official)—Lowest bids received for regulating and repaving (a) 51st St. from West Side First Ave. to East Side Third Ave., (b) 52d St. from Fifth to Sixth Ave., (c) 151st St. from Amsterdam Ave. to Broadway, (d) Lexington Ave. from 21st to 23d St., (e) Columbus Ave., (f) 25th St. from Broadway to Sixth Ave., 32d St. from Fifth Ave. to Broadway and from Sixth to Seventh Ave. and Sixth Ave. from 23d to 32d St., were as follows: (b) and (d) Aztec Asphalt Co., Inc., 90 West St., New York, N. Y., at $7,702 and $8,003 respectively; (a), (c), (e) and (f), Barber Asphalt Paving Co., Woolworth Bldg., New York, at $10,727, $6,508, $11,450 and $60,501 respectively.

N. Y., New York—(Borough of Manhattan)—(Official)—W. J. Fitzgerald, 547 West 45th St., New York, N. Y., at $5,412, submitted lowest bid for regulating and repaving 18th St. from Broadway to Fourth Ave.

N. Y., Rochester—(Official)—Contract for paving Elmwood Ave. awarded to JULIUS FRIEDRICH CO., INC., Rochester, at $8,680. Noted Oct. 7.

N. J., Freehold—Contract for Tennent, Gordon's Corner Rd. awarded to W. H. FLITCROFT, at $6,016. Noted Sept. 30.

N. J., Hoboken—(Official)—Contract for improving portions of First, Third and Harrison St. awarded to LESTER FELLOWS CO., Jersey City, at $4,953. Noted Sept. 30.

N. J., Irvington—(Official)—Contract for paving Lyon Ave. awarded to NORTHERN CONSTRUCTION CO., 665 Broad St., Newark, at $62,070. Noted Sept. 23.

N. J., Jersey City—Nolan & Horning Construction Co., West Hoboken, submitted lowest bid for improving Passaic Ave. and Paterson Plank Rd. Noted July 29 and Sept. 23.

N. J., Madison—Contract for paving Waverly Pl. with asphalt block awarded to GLENFIELD CONSTRUCTION CO., Newark, at $2.14 per sq.yd. for paving and 38c. per sq.yd. for excavation.

N. J., Montclair—(Official)—All bids rejected for paving Upper Mountain Ave. from Bloomfield Ave. to Jerome Pl. Noted Oct. 7.

N. J., New Brunswick—Contract for paving South-Amboy Keyport Rd. awarded to T. H. RIDDLE, New Brunswick, at $45,349. Noted Sept. 9 and 30.

Penn., Mt. Union—Contract for 13,000 sq.yd. vitrified brick pavement awarded to CURWENSVILLE CONSTRUCTION CO., Curwensville.

N. C., Kinston—Contract awarded to WEST CONSTRUCTION CO., Chattanooga, to pave 50½ blocks with Bermudez Lake sheet asphalt on concrete base. Estimated cost, $140,000 to $160,000.

Fla., Arcadia—Contract for road construction awarded to EDWARDS CONSTRUCTION CO., Tampa, at $85,000.

Ala., Camden—Contract awarded to RAWLINGSON CONSTRUCTION CO., Luverne, at $7,635 for five miles of road in eastern section of Wilcox County.

Miss., Jackson—Contract awarded to C. T. TALBOTT to cover and bind two miles of Rankin Pike.

Tenn., Delphi—Contract awarded to CHICKAMAUGA QUARRY & CONSTRUCTION CO., Chattanooga, at $50,000 for Dixie short route through Sequatchie.

Tenn., Memphis—Contract for paving Claybrook St. awarded to GEORGE O. WHITE & CO., at $9,011.

Ky., Bardwell—Carlisle County Commissioners awarded contract to CRESAP BROS., Humboldt, Tenn., at $9,000 for six miles of earth road. Noted Sept. 16.

Ohio, Athens—Mariner, Finsterwald & Gross submitted the only bid for paving Grosvenor St.

Ohio, Canton—Contract awarded to SMITH & KRABILL, by Board of Commissioners of Stark County for paving Gairo-Hartville Rd. in Plain and Lake Townships.

Ohio, Cincinnati—Contract for improving Red Bank Rd. awarded to ARMSTRONG & GIFFORD, at $6,700. Noted Oct. 7.

Ohio, Cleveland—Contract for paving Sykro Rd. and East 32d St. awarded to A. M. PEJSA PAVING CO., at $10,790; East 123d St. to FRESHWATER CONSTRUCTION CO., at $3,924.

Ohio, Cleveland Heights (Warrensville post office)—Contract awarded to CLEVELAND TRINIDAD PAVING CO., Cleveland, for paving Derbyshire and Cedar Rd.

Ohio, Columbus—Monarch Construction Co., 1438 Bryden Rd., at $11,386, low bidder for improving Ryan Ave. from Trapple Pike to Sullivan Ave.

Ohio, Columbus—Contract awarded to KENNEDY-WARNER CO., at $8,409, for improving Cleveland, Wooster Rd. in Parma Township. Noted Sept. 30.

Ohio, New Lexington—Contract awarded to ENGINEERING SERVICE CO., Columbus, at $53,227, by Board of County Commissioners for grading and paving Athens Rd. in Monroe Township.

Ind., Covington—Contract awarded to CHARLES IRVIN, Attica, Ind., at $6,100 for gravel road in Troy Township.

Ind., Franklin—Contract for Adcock Rd. awarded to JOHN W. MURPHY, at $11,000. Noted Sept. 16.

Ind., Gary—Contract awarded to GARY CONSTRUCTION CO., at $4,731 for paving Broadway with asphalt macadam.

Ind., Huntington—(Official)—Contract for sidewalks on Ogan St. awarded to E. BONEBRAKE, Huntington. Noted Sept. 30.

Ind., Indianapolis—Contract for repaving North Capitol Ave. awarded to UNION ASPHALT CONSTRUCTION CO., at $16,005. Noted Sept. 2.

Ind., Noblesville—(Official)—Contract for concrete road in Noblesville Township awarded to A. L. TRIBBLE, Brazil, at $46,866. Noted Sept. 30.

Ind., Shoals—(Official)—Contract for macadam road in Perry Township awarded to GEORGE GREEN, Shoals, at $6,743. Noted Sept. 23.

Ind., Terre Haute—Contract awarded to EDWARD PATTEN, Veedersburg, at $5,225, for paving north side of public square.

Ind., Vincennes—Lowest bids received for paving Second St. from Main to Church St. were Foulkes Construction Co., at $4,471, with brick, Premier Construction Co., at $4,335, with Trinidad Lake asphalt.

Mich., Midland—Contract awarded to S. W. BURTON, for road work.

Ill., St. Charles—Contract awarded to WESTERN IMPROVEMENT CO., Racine, Wis., at $55,891 for paving East and West Main St. and other connecting streets. Noted Sept. 16 and Oct. 14.

Wis., Racine—Birdsall-Griffith Construction Co., $1.95 for brick low bidder for paving 4,491 sq.yd. on Hamilton Ave. Noted Sept. 30.

Iowa, Ft. Dodge—Contract for constructing a number of sidewalks awarded to JOHNSON CEMENT SIDEWALK CO., at $4,000. Noted Oct. 7.

Iowa, Ottumwa—Contract for paving awarded to KEOKUK QUARRY & CONSTRUCTION CO., Keokuk. Estimated cost, $30,000.

Minn., Buffalo—No bids were received for grading Lake Shore Rd. The work will be done by day labor. Noted Sept. 23.

Minn., Duluth—Contract for paving 30th Ave. W. from Superior to Vernon St. awarded to AUGUST A. BODIN & SON, at $9,721.

Mont., Hardin—All bids received Oct. 4 for road between Big Horn River Bridge and Dry Creek rejected. Noted Sept. 30.

Mo., Chillicothe—Contract for paving 31st St. from 9 to Elmdale Rd. awarded to C. A. STEWART, Chillicothe, at $1.56 per sq.yd.

Mo., Kansas City—Contract for 5,574 sq.yd. of 6-in. portland cement concrete paving on South Euclid Ave. awarded to JAMES O'CONNOR & SONS, 8000 East 11th St., at $4,272.

Ark., Lake Village—Contract for paving streets awarded to McCREARY CONSTRUCTION CO. Estimated cost, $16,000.

Colo., Lamar—(Official)—Contract for grading and improving Santa Fé Rd. awarded to FILOON & FORD and HENRY MARSOR, at $4,200. Noted Sept. 30.

Ariz., Phœnix—Contract for paving Madison St. with bitulithic awarded to CALIFORNIA-ARIZONA CO., at $2.10 sq.yd.

Wash., Prosser—Contract for Permanent Highway No. 5 awarded to A. H. ZANE & CO., North Yakima, at $19,230. J. T. Wright, County Engr.

Wash., Seattle—Contract for improving east and west Green Lake Way awarded to R. G. STEVENSON, 1327 Ewing St., Seattle, at $103,303. Noted Oct. 14.

Calif., Arcadia—Bids were received for approximately 16 miles of oiled macadam roadway and 10,000 ft. of concrete curb and gutter as follows: E. A. Baker, $122,998; Rogers Bros. Co., $130,787; Andrew Holloway, $131,628. Noted Sept. 30.

Calif., Bakersfield—Worswick Street Paving Co., Modesto, at $31,460, submitted lowest bid for concrete pavement on Division 1p, Section 5, Weed Catch Loop. Noted Sept. 30.

Calif., East San Diego—M. D. GOODBODY CONSTRUCTION CO., San Diego, at $39,600, awarded contract for grading and improving Hugo Ave.

Calif., Hermosa Beach—Contract for improving a number of streets awarded to CALIFORNIA-ARIZONA CONSTRUCTION CO., at $18,578.

Calif., Oakland—Contract for paving 25th Ave. from East 14th St. south awarded to HUTCHINSON CO.

Calif., Ontario—(Official)—Contract for paving awarded to FORD & STOUT, 336 Bradbury Bldg., Los Angeles, at $57,088. Noted Sept. 23 and Oct. 14.

Calif., Richmond—Contract awarded to GEORGE W. CUSHING, at $4,833 for paving 21st St. and Anita Ave.

Calif., San Bruno—Contract for constructing sidewalks awarded to CHARLES J. LINDGREN, San Francisco, at $29,959.

Calif., Sanger—Contract for three miles of macadam road awarded to M. HAYNES, Oakland, at $23,801.

Calif., San Francisco—Contract awarded to FLYNN & TREACY, at $17,557 for improving Rhode Island St. from 22nd to 23rd St.

Calif., San Rafael—Contract for graveling Olema Rd. from Lagunitas to Tocaloma awarded to S. P. BROWNLEE, at $4,606.

Ont., Essex—Contract for constructing concrete sidewalks awarded to JOHN WORTLEY.

Ont., Windsor—Contract for concrete pavement and curbs on Cataraqui St. awarded to CALDWELL SAND & GRAVEL CO., at about $4,500.

INDUSTRIAL WORKS

Proposed Work

Mass., Lowell—Tremont & Suffolk Mills will build 43x140-ft. addition. Estimated cost, $35,000.

Conn., Bristol—Plans completed for rolling mill, 188x300-ft. and wing, 60x300-ft. for Bristol Brass Co. Noted Sept. 9.

Conn., Hartford—Gordon Bros. having plans prepared for three-story and basement, 50x140-ft. brick cold-storage building. F. C. Waly, Arch.

Conn., New Haven—National Folding Box & Paper Co. has plans for 105x345-ft. factory addition. Estimated cost, $100,000.

Conn., Norwich—Shebucket Co. will build two-story brick weave shed, 84x356 ft. Estimated cost, $75,000.

N. Y., Fulton—(Official)—Hunter Arms Co., Inc., advises it does not contemplate additions to its plant. Noted Aug. 19.

N. Y., New York—(Borough of Brooklyn)—Bids being received for four-story, 26x41-ft. brick and steel mill for Chelsea Fiber Mills Co., 1155 Manhattan Ave. William B. Tubby, 81 Fulton St., New York, Arch. Noted Sept. 30.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids being received for two-story, 98x109-ft. brick shop and garage on Quincy St. for Edison Electric Illuminating Co., 13 Willoughby St. C. L. Knight, Engr. Estimated cost, $40,000.

N. Y., New York—(Borough of Brooklyn)—(Official)—Koch & Wahner, 26 Court St., Brooklyn, preparing plans for two- or four-story, 65x130-ft. brick loft and manufacturing building at Flatbush Ave. extension near Concord St. for F. A. Koch Bldg. Co., Inc. Noted Oct. 14.

N. Y., New York—(Borough of Manhattan)—(Official)—Gronenberg & Lenchtag, 303 Fifth Ave., preparing plans for storage warehouse on 181st St. near Audubon Ave. for Ruth Holding Co. Building will be six-stories, 75x119-ft. Estimated cost, $90,000.

N. Y., Richfield Springs—Simmons Bros. will build one-story, 75x150-ft., garage. Henry Kehoe, Arch.

N. Y., Rochester—Rochester Rotary Washer Co. 55 Franklin St., having plans prepared for five-story factory and office building to be erected in spring.

N. Y., Saratoga Springs—C. G. Anthony, Consult. Engr., preparing plans for State Reservation Commission, Albany, for bottling works. Estimated cost, $162,000.

N. Y., Tonawanda—Bids being received by G. Morton Wolfe, Buffalo, for one-story, 60x273-ft. factory at Fillmore Ave. and New York Central and Erie R.R. for Plastergon Wall Board Co.

N. Y., Waterport—Growers' Cold Storage Co. will build by day labor three-story and basement, 98x126-ft. cold-storage plant. John G. Ellendt, Cutler Bldg., Rochester, Arch.

N. J., Bloomfield—Eastern Tool & Mfg. Co., 74 Richmond St., Newark, will build factory at Bloomfield Ave. and Grove St.

N. J., Kearney—American Splint Corporation, New York, N. Y., will build four-story factory. Estimated cost, $100,000.

Md., Baltimore—John Freund, Baltimore, preparing plans for three-story, 74x100-ft. garage on High St. for City Baking Co.

La., Homer—Hodge Fence & Lumber Co. will rebuild its mill, recently destroyed by fire. Estimated cost, $60,000.

Ohio, Ashtabula—W. C. Owen, Leader-News Bldg., Cleveland, prepared plans for factory for Cleveland Ford Tire Co.

Ohio, Cleveland—Perfection Spring Co. will build warehouse at 2339 East 67th St. George S. Rider & Co., 512 Century Bldg., Arch. Estimated cost, $50,000.

Ohio, Cleveland—Cleveland Punch and Shear Co. will build one-story addition at 3927 St. Clair Ave. Estimated cost, $10,000.

Ohio, Cleveland—O. C. Barber, Barberton, contemplates grain elevator at Cleveland.

Ohio, Cleveland—Ernest McGeorge, Leader-News Bldg., preparing plans for five-story, 50x250-ft. addition to plant of Peerless Motor Car Co., East 93 and Quincy St.

Ohio, Cleveland—U. S. Gypsum Co., Schofield Bldg., will build two-story, 50x80-ft. warehouse at 1714 Merwin Ave.

Ohio, Oakley—(Cincinnati post office)—Cincinnati Milling Machine Co. will build addition to its plant. Estimated cost, $15,000.

Ohio, Youngstown—Trumbull Steel Co. will spend $1,290,000, according to press reports, for enlarging its tinplate and sheet plant.

Ohio, Youngstown—Youngstown Sheet & Tube Co. plans three additional openhearth furnaces. James A. Campbell, Pres. Estimated cost, $500,000.

Ind., Gary—Work will soon begin on construction of addition to plant of American Sheet & Tin Plate Co.

Ind., Kokomo—Elmer Dunlap Co. preparing plans for factory for Mid-West Boxboard Co., Estimated cost, $50,000.

Mich., Howell—Howell General Electric Motors Co., recently incorporated with $30,000 capital, will build factory. H. M. Spencer, Pres.

Mich., Jackson—Brisco Motor Co. having plans prepared for factory. Estimated cost, $100,000.

Mich., Owosso—American Malleable Co. will build addition. Estimated cost, $60,000.

Ill., Chicago—Peterson Express & Van Co. will build six-story warehouse at 1011 East 55th St. T. J. Reynertson, Arch. Estimated cost, $55,000.

Ill., Chicago—Stewart-Warner Speedometer Corporation plans addition at estimated cost of $30,000.

Ill., Chicago—Diamond Glue Co., 3602 Robinson St., will build addition. Estimated cost, $30,000. Marx & Vigeant, Arch.

Ill., Chicago—Jourdans Sausage Mfg. Co. 814 West 20th St., will build two-story brick factory. Estimated cost, $20,000. J. J. Corner, Arch.

Ill., Chicago—Western Shade Cloth Co. will build one-story factory addition at 2000 South Jefferson St. Estimated cost, $75,000. Postle & Fisher, 140 South Dearborn St., Arch.

Kan., Neodesha—Standard Oil Co. of Kansas will build additional stills. Estimated cost, $200,000.

Mo., Kansas City—Berry-Wood Piano Player Co. will build factory at 17th St. and Troost Ave.

Tex., San Antonio—Dixie Oil & Refining Co. will enlarge its plant. Estimated cost, $40,000.

Okla., Jennings—Bids will be received until Nov. 1 by Brennan & Rooney, Arch., Tulsa, for oil refinery for Mid-Continent Refining Co. Noted Sept. 23.

Wash., Seattle—Metz Motor Co., Waltham, Mass., having plans prepared for five-story, 64x112-ft. concrete factory on East Pike St., Seattle. J. P. Scearce, Local Mgr.

Ore., Oregon City—Willamette Valley Flax Co. will build flax mill. John W. Loder, interested. Estimated cost, $300,000.

Ont., Hamilton—W. T. Rawleigh Co., Freeport, Ill., has purchased two-acre site and will build factory.

Ont., Toronto—Chevrolet Motor Car Co. will build addition to its factory at Perth and Kingsley Ave. Estimated cost, $15,000.

Ont., Toronto—R. G. Long & Co., 439 Wellington St., will build factory at 727 King St. Estimated cost, $80,000.

Bids In and Contracts Awarded

N. H., Manchester—Contract awarded to BUNTON & BERNARD, Manchester, at $20,000, for two-story, 78x100-ft. warehouse for Charles Simpson.

Mass, Chicopee—Paige-Storms Co., owned by New England Westinghouse Co., awarded contract to D. G. CANTY, Chicopee, at $25,000, for two additions to its drop-forge plant.

Mass., Fitchburg—Contract awarded to FISHER-CARTER CONSTRUCTION CO., Holyoke, at about $35,000, for three-55x76-ft. factory for Brown Bag Filling Machine Co.

Mass., Forest Hills—(Boston post office)—Contract awarded to JOSEPH IMHOF, 6 Ashley St., Jamaica Plain, at about $16,000, for one-story, 100x100-ft. garage for J. J. Lannin, Tremont Bldg., Boston.

Mass., Holyoke—Contract awarded to CASPER RANGER CONSTRUCTION CO., Holyoke, at about $35,000, for three-story, 100x130-ft. workshop and storage warehouse for F. A. Champlin and D. F. Moriarty.

Mass., Lynn—Contract awarded to C. S. CUNNINGHAM & SONS CO., 101 Tremont St., Boston, at about $10,000, for factory for Hennessey Maxwell & Hennessey Shoe Co.

Mass., Newton—Contract awarded to CHARLES E. CURRIER CO., 110 Summer St., at $50,000, for ice plant for Purity Ice Co.

Mass., Worcester—Contract awarded to E. J. CROSS CO., 82 Foster St., Worcester, by W. & S. Mfg. Co., for two-story, 40x48-ft. brick factory.

Conn., Bridgeport—Contract awarded to T. J. PARDY CONSTRUCTION CO., Bridgeport, at $175,000, by American Graphophone Co. for five-story addition.

Conn., Groton—Contract awarded to H. R. DOUGLAS INC., New London, for factory for New London Ship and Engine Co.

N. Y., Buffalo—Contract awarded to JOHN W. COOPER CO., Fidelity Bldg., for linseed-oil-crushing mill and storehouse for Archer-Daniels Co. on Buffalo River.

N. Y., Jamestown—Contract awarded to KELLOGG STRUCTURAL STEEL CO., Buffalo, by Jamestown & Chautauqua Traction Co. for car house.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contract awarded to TURNER CONSTRUCTION CO., 11 Broadway New York, for two-story, 40x75-ft. factory at East 3rd St. and Ditmars Ave., for W. Becker Aniline & Chemical Co.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to STANDARD CONCRETE STEEL CO., 143 East 31st St., for four-story, 43x100-ft. garage at 146 West 100th St., for Eugene Goll, Patchogue, N. Y.

N. J., Camden—Contract awarded to ARMSTRONG-LATTA CO., by Taylor-White Extracting Co. for three-story addition. Noted Sept. 30.

N. J., Harrison—(Official)—Contract awarded to TURNER CONSTRUCTION CO., 11 Broadway, New York, N. Y., by Hyatt Roller Bearing Co., for 8-story, 75x200-ft. building at Middlesex and Fifth St.

N. J., Newark—Contract awarded to DAVID HENRY BUILDING CO., at about $15,000, for one-story brick building at 264 Vanderpool St. for Beckton Chemical Co.

N. J., Passaic—(Official)—Contract awarded to JOHN W. FERGUSON CO., New York, N. Y., for five-story, 54x280-ft. building for Forstmann & Huffmann Co., Passaic.

Penn., Philadelphia—Contract awarded to GEORGE STEMBACH, 1609 North Park Ave., at $35,000, for one-story garage on Locust St. near 41st St., for Charles F. Sine.

Penn., Philadelphia—Contract awarded to HENRY E. BATON, Philadelphia, at $50,000, for six-story warehouse for W. J. McCahan Sugar Refining Co.

Penn., Philadelphia—Contract awarded to FRANK G. STEWART, 1619 Sanson St., at $45,000, by Felton Sibley Co., Inc., Fourth and Cherry St. for six-story factory. Noted Sept. 2.

Md., Baltimore—Contract awarded to P. J. CUSHEN, Baltimore, by Maryland Steel Co. for 180x428-ft. machine shop.

Ky., Louisville—Contract awarded to L. W. HANCOCK CO., Louisville, for six-story warehouse for Speed Realty Co. Estimated cost, $60,000. Noted Sept. 30.

Ohio, Cleveland—Contract awarded to UHL-JASTERS CO., 1900 Euclid Ave., Cleveland, for two-story, 54x100-ft. and one-story, 50x60-ft. foundry and one-story warehouse at West 38th St. and Nickel Plate R.R. for Cleveland Electro Metal Co. Noted Oct. 14.

Ohio, Cleveland—Contract awarded to COPPERS CO., Pittsburgh, Penn., at about $150,000 for coke oven plant at Clark Ave. and Wheeling & Lake Erie R.R. for River Furnace Co., Perry Payne Bldg.

Ohio, Newburg—(Cleveland post office)—Contract awarded to H. G. STATMYER & SON CONSTRUCTION CO. by American Steel & Wire Co. for addition to its plant. Estimated cost, $750,000. William P. Palmer, Pres.

Ohio, Toledo—Contract awarded to A. BENTLEY & SONS CO. by Willys Overland Co. for factory on Central Ave. Estimated cost, $300,000.

Mich., Grand Rapids—Contract awarded to F. A. HORNER by Clark Veneer Co. for two-story, 113x165-ft. warehouse on Grandville Ave., S. W. Noted Aug. 12.

Wis., Milwaukee—Contract awarded to PAUL RIESEN'S SONS, by A. C. Clas, Arch., Colby-Abbot Bldg., for machine shop and foundry for Milwaukee Die Casting Co.

Wis., Wausau—Contract awarded to HACKBARTH & KRAUSE, by Marathon Shoe Co., at about $12,000, for shoe factory. Noted Sept. 30.

Minn., Minneapolis—Contract awarded to FARNAM BROS. CO., Minneapolis, by Board of Education for three additions to its shops and warehouse at 245 Ninth Ave. Estimated cost, $17,000.

Kan., Stafford—Southwest Grain Co. awarded contract to AUGUST MATTSON, for seven grain elevators.

Mo., Kansas City—Contract awarded to GRAY CONSTRUCTION CO., O'Rear-Leslie Bldg., by Marshall Oil Co. for one-story, 100x113-ft. warehouse at 14th and Campbell St., North Kansas City.

Mo., Kansas City—Contract awarded to LONSDALE BROS., 520 Bryant Bldg., at $11,000, for remodelling warehouse at 16th and Walnut St. for Every Bird Thayer Dry Goods Co., 11th and Walnut St.

Wash., Olympia—Oregon-Washington R.R. & Navigation Co., Portland, Ore., awarded contract to E. J. ROUNDS CONSTRUCTION CO., Walker Bldg., Seattle, for one-story brick depot and one-story, 30x115-ft. brick freight shed. Estimated cost, $25,000.

Ore., Portland—Contract awarded to JAMES P. FORD, at $30,000 for two-story brick and concrete factory for Oregon Motor Co.

FEDERAL GOVERNMENT WORK

Proposed Work

Paving—New Haven, Conn.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Oct. 28, for sidewalks, curbing, etc., at United States post office and courthouse, New Haven.

Roadwork—Ft. Slocum, N. Y.—Bids will be received at office of Quartermaster, U. S. Army, Recruit Depot, Ft. Slocum, until 9:30 a.m., Oct. 28, for concrete sidewalks, curbs and macadam road at Ft. Slocum.

Engine House—Washington, D. C.—Bids will be received by Secretary of Board of Commissioners, Room 509, District Bldg., until 2 p.m., Nov. 8, for Engine House No. 28. (See adv.)

Oil Storage Tanks—Washington, D. C.—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, until 10:30 a.m., Nov. 16, for steel oil storage tanks. (See adv.)

Radial Gates—Washington, D. C.—Bids will be received by A. P. Davis, Ch. Engr., United States Reclamation Service, Washington, D. C., until 2 p.m., Nov. 1, for ten hoists for radial gates, New Jackson Lake Dam, Snake River Storage Project, Idaho-Wyoming.

Dredging—Jacksonville, Fla.—Bids will be received at U. S. Engineer Office, Jacksonville, until noon, Nov. 8, for dredging and rock removal at Miami Harbor and St. Lucie Inlet. (See adv.)

Officers' Quarters—Key West, Fla.—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 13, for two officers' quarters, naval station, Key West.

Post Office—Brenham, Tex.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 27, for United States post office at Brenham.

Heating System—Ft. Bliss, Tex.—Bids will be received at office Depot Quartermaster, El Paso, until 11 a.m., Nov. 17, for hot water heating systems in 13 officers' quarters at Ft. Bliss. (See adv.)

Post Office—Navasota, Tex.—Bids will be received by James A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., until 3 p.m., Nov. 26, for United States post office at Navasota.

Canal Work—Grand Junction, Colo.—Bids will be received at office of United States Reclamation Service, Grand Junction, until 2 p.m., Nov. 4, for about 340,000 yd. of canal excavation.

Marine Railway—Pearl Harbor, Hawaii—Bids will be received by H. R. Stanford, Ch. of Bureau of Yards and Docks, Navy Dept., Washington, D. C., until 11 a.m., Nov. 27, for marine railway at naval station, Pearl Harbor.

Miscellaneous Supplies—Panama—Bids will be received by Maj. F. C. Boggs, Gen. Pur. Officer, Panama Canal, Washington, D. C., until 10:30 a.m., Nov. 5, for furnishing miscellaneous supplies.

Bids In and Contracts Awarded

Building—Boston, Mass.—Bids were received by J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for U. S. appraisers' stores, Boston, (a) foundation sea wall, etc., (b) construction of superstructure, (c) construction complete, as follows: Norcross Bros. Co., Worcester, Mass., (a) $155,000, (b) $490,700, (c) $635,000; George A. Fuller Co., Boston, (a) $149,980, (b) $513,897, (c) $660,000; Z. W. Dall Co., Cleveland, Ohio, (a) $184,000, (b) $474,868, (c) $649,868. Noted Sept. 2.

Elevator Plant—Boston, Mass.—Bids were received Oct. 8 for elevator plant in U. S. appraisers' stores, Boston, from: Otis Elevator Co., Washington, D. C., at $29,439 and A. B. See Electric Elevator Co., Baltimore, Md., at $37,225. Noted Sept. 23.

Post Office—Naugatuck, Conn.—Bids were received Oct. 13 by J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Naugatuck as follows: E. T. Abbott Construction Co., New York, N. Y., $47,900; William H Fissell & Co., New York, N. Y., $50,400; J. S. Rogers, Moorestown, N. J., $50,482.

Riprap—Philadelphia, Penn.—Bids were received Oct. 14 for riprap in Delaware River at Mifflin Bar Dike as follows: Coast & Lakes Contracting Corporation, New York, N. Y., at $1.36 per ton (recommended for acceptance); Peoples Bros. Inc., Philadelphia, at $1.74 per ton; C. R. Simpson, New York, N. Y., at $2.21 per ton. Noted Sept. 23.

Pumping Unit—Washington, D. C.—Bids were received Oct. 11 by Commissioners of District of Columbia for one steam turbine-driven centrifugal pumping unit as follows: De Laval Steam Turbine Co., Trenton, N. J., $12,995, time 115 days, and $15,633, 105 days; Alberger Pump & Condenser Co., New York, N. Y., $17,030; Standard Engineering Co., Washington, D. C., $18,690. Noted Sept. 23.

Sewers—Washington, D. C.—Bids were received Oct. 12 by Commissioners of District of Columbia for Anacostia Intercepting Sewer, (a) ordinary excavation, (b) concrete masonry, (c) vitrified brick masonry, (d) sewer brick masonry, as follows: Whiting-Turner Construction Co., Baltimore, Md., (a) 56c., (b) $8.18, (c) $22, (d) $15; W. F. Brenizer Co., Washington, D. C., (a) $1.25, (b) $7.35, (c) $23, (d) $16; George Hyman, Washington, D. C., (a) $2.50, (b) $6.25, (c) $19, (d) $15.

Dredging—Norfolk, Va.—Contract for dredging and rock excavation on James River awarded to MARYLAND BREDGING & CONTRACTING CO., Baltimore, Md., at $34,590. Noted Sept. 16 and Oct. 7.

Fuel Oil Storage Plants—Norfolk, Va.—Bids were received Oct. 16 for fuel oil storage plants at navy yard, Norfolk, as follows: C. C. Moore & Co., San Francisco, $199,800; Wayne Construction Co., Wayne, Penn., $208,246; Day & Zimmerman, Philadelphia, Penn., $199,696. Noted Aug. 19.

Post Office—Wilkesboro, N. C.—Bids were received by J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C., for post office at Wilkesboro as follows: King Lumber Co., Charlottesville, Va., $54,700; J. S. Rogers, Moorestown, N. J., $56,945; Richardson Construction Co., Bainbridge, Ga., $52,600. Noted Sept. 16.

Hangars—Pensacola, Fla.—Bids were received at Bureau of Yards and Docks, Navy Dept., Washington, D. C., for three hangers at U. S. Navy Aëronautic Station, Pensacola, as follows: Penn Bridge Co., Washington, D. C., $34,965; Henry Monk, Pensacola, $41,400; Snare & Triest, New York, N. Y., $41,760. Noted Sept. 30.

Machinery—Cincinnati, Ohio—Contract for furnishing and installing operating machinery at Dam No. 29, Ohio River awarded to J. & J. R. MULHOLLAND CO., Pittsburgh, Penn., at $25,788. Noted Aug. 26 and Oct. 14.

Post Office—Logan, Ohio—Bids were received by J. A. Wetmore, Act. Superv. Arch., Treasury Dept., Washington, D. C. for post office at Logan, (a) limestone, (b) sandstone, as follows: Ohio Bridge & Construction Co., Cincinnati, (a) $45,000, (b) $45,000; J. S. Rogers, Moorestown, N. J., (a) $43,150, (b) $44,150; Charles W. Gindele & Co., Chicago, Ill., (a) $44,500, (b) $45,500. Noted Sept. 9.

Remodeling Post Office—Moberly, Mo.—Bids were received Oct. 15 for remodeling post office at Moberly as follows: Algernon Blair, Montgomery, Ala., $32,790; Frank M. Weakley, Portsmouth, Va., $33,443; Dieter & Wenzel Construction Co., Wichita, Kan., $33,406. Noted Sept. 23.

Heating Plants—Ft. Sill, Okla.—Bids were received for steam heating plants at Ft. Sill (a) 19 plants, (b) 13 plants, (c) 6 plants, as follows: Charles T. Taylor, Hampton, Va., (a) $18,821, (b) $13,204, (c) $5,617; Fred B. Hannan, Lawton, (a) $15,675, (b) $11,475, (c) $700; H. H. Lloyd, Lawton, (a) $17,397, (b) $13,095, (c) $6,377.

Fuel Oil Storage Plants—Bremerton, Wash.—Bids were received at Bureau of Yards and Docks, Navy Dept., Washington, D. C., Oct. 16 for fuel oil storage plants at Bremerton as follows: C. C. Moore & Co., San Francisco, Calif., $319,500; Wayne Construction Co., Wayne, Penn., $413,624; John W. Danforth & Co., Buffalo, N. Y., $312,300. Noted Aug. 19.

Barracks—Mare Island, Calif.—Contract for marine barracks at Mare Island Navy Yard awarded to PRINGLE, DUNN & CO., 338 Pine St., San Francisco, at $137,542. Noted Aug. 26 and Sept. 30.

Fuel Oil Storage Plants—Mare Island, Calif.—Bids were received Oct. 16 for fuel oil storage plants at navy yard, Mare Island, as follows: F. P. Walsh, San Francisco, $258,225; C. C. Moore & Co., San Francisco, $295,200; John W. Danforth & Co., Buffalo, N. Y., $308,500. Noted Aug. 19.

Fuel Oil Storage Plants—San Diego, Calif.—Bids were received Oct. 16 for fuel oil storage plants at navy yard and station from: C. C. Moore & Co., San Francisco, $165,780; Wayne Construction Co., Wayne, Penn., $193,740. Noted Aug. 19.

Motor-Driven Capstans—Panama—Bids were received Oct. 11 by General Purchasing Officer, Panama Canal, for 975 motor-driven capstans from American Engineering Co., Philadelphia, Penn., at about $55,000,, and Hyde Windlass Co., Bath, Maine, at $57,695.

Piers—Honolulu, H. T.—Lord-Young Co., at $285,000, submitted lowest bid for concrete piers No. 8, 9 and 10.

CANALS, DITCHES AND IRRIGATION

Proposed Work

N. Y., Albany—Canal Terminal—Bids will be received by W. W. Wotherspoon, Supt. of Pub. Wks., until noon, Nov. 9, for completing canal terminal at Albany. Estimated cost, $42,689.

Ga., Savannah—Drainage—(Official)—Citizens voted $400,000 bonds for drainage. Thomas Halligan, City Clk. Noted Oct. 7.

Fla., Lake Worth—Drainage—(Official)—Plans will be completed about Jan 1 for Lake Worth Drainage District, about 130,000 acres. Orrin Randolph, Ch. Engr. Noted Oct. 7.

Miss., Dublin—Drainage—Drainage District organized by Coahoma County Supervisors, Clarksdale, to reclaim about 10,000 acres. E. L. Fontiane, Ch. Engr.

Ohio, Cleveland—Ditch Improvement—Bids will be received by E. G. Krause, Clk., Bd. of Comrs. of Cuyahoga County until Nov. 6 for ditch improvement in Solon Township.

Ind., Lawrenceville—(Sunman post office)—Ditch—Contract will soon be awarded for improving ditch in England Pond.

Wis., Bristol—Drainage—Bids will be received by Town Supervisor until Oct. 28 for drainage system for Bristol Dranage District. W. E. O'Brien, Kenosha, Engr.

Iowa, Council Bluffs—Drainage—Board of Supervisors of Harrison and Pottawattamie Counties preparing plans for widening and deepening Allen Creek and Fish Lake ditch. Estimated cost, $40,000. Noted Oct. 7.

Iowa, Jefferson—Drainage—Bids will be received until Oct. 25, by B. S. McCulley, Audr. of Green County, for excavation and laying drains in Drainage District No. 108.

Iowa, Muscatine—Dams—Plans being prepared for three dams in Drainage Ditch No. 10.

Iowa, Ottumwa—Ditch—Board of Supervisors contemplate drainage ditch in southern part of county.

Minn., Blue Earth—Ditch—Bids will be received until 1 p.m., Oct. 29, by Jesse L. Herring County Audr., for County Ditch No. 32, Faribault County.

Minn., Grand Rapids—Ditch—Surveys for Ditch No. 6 at Blackberry completed by William Passard.

Minn., St. Paul—Ditch—State Drainage Board plans expenditure of $15,000 for improving Sand Hill River ditch in Polk County.

Neb., Minden—Drainage—Citizens voted to build drainage system in Newark, Lowell and Blane Townships.

N. D., Fargo—Ditch—Bids being received for two ditches through a portion of Kenyon and Noble Township to Red River. Estimated cost, $30,000 each. F. Crabbe, Fargo, Engr. Noted Oct. 7.

Mont., Billings—Ditch—Trustee of Big Ditch Co. authorized to make improvements at estimated cost of $7,000.

Mont., Helena—Irrigation—Beaver Head Water Co., recently incorporated, plans to irrigate land in Beaver Head County. W. T. Piggott, interested.

Mo., Butler—Drainage—(Official)—Bates and Cass County Drainage District being formed and will let contract about Dec. 1 for drainage work.

Tex., Austin—Drainage—Bonds for $158,000 voted by citizens of Noeces County Drainage District No. 2 approved.

Tex., Donna—Irrigation—Donna Irrigation District No. 1, Hildalgo County, plans to construct irrigation system at an estimated cost of $215,000. G. B. Meriwether, Pres.

Tex., Edna—Drainage—Attorney General's Department approved $105,000 bonds for Jackson County Drainage District No. 5.

Tex., Van Horn—Irrigation—Van Horn Valley Land & Ry. Co., Van Horn and Minneapolis, Minn., will construct wells for irrigation.

Colo., Pueblo—Irrigation—Turkey Creek Irrigation Co. plans system of ditches on Teller holdings. J. C. Teller, Pueblo, interested. Estimated cost, $50,000.

Colo., Saguache—Drainage—Citizens contemplate drainage system. W. L. Curtis, Comr.

Idaho, Nyssa—Irrigation—Nyssa Arcadia Drainage District plans to reclaim approximately 8,000 acres near Nyssa. G. McGeen, Caldwell, Ch. Engr.

Ore, Culver—Irrigation—Suttles Lake Irrigation District voted to issue bonds for irrigation and water system to include 12,000 acres. Estimated cost, $532,390.

Calif., Colusa—Reclamation—Reclamation Districts 108, 479 and 787 plan levee improvements. J. W. Browning, E. L. Dow and W. P. Dwyer, Comrs. of West Side District. Estimated cost, $580,000.

Calif., Westminster—Drainage—(Official)—Bids will probably be received in December for drainage system to drain 6000 acres. S. H. Finley, Santa Ana, Engr. Estimated cost, $25,000. Noted Oct. 14.

Bids In and Contracts Awarded

Wis., Grand Rapids—Drainage—Contract awarded to C. W. ROOD CONSTRUCTION CO. for draining Northwest Drainage District.

Iowa, Manson—Drain—Contract for cement tile for 13-mile drain awarded to CEMENT PRODUCTS CO., Sac City, at $21,000.

Iowa, Sibley—Ditch—Contract awarded to SIBLEY CEMENT CO., at $5,290, for ditch work in channel of Ocheyedan River.

Minn., Breckenridge—Ditch—(Official)—Contract for Ditch No. 8-A, Wilkin County, awarded to G. E. BROWN, Litchfield, at $1.25 per cu.yd. Noted Sept. 30.

Minn., Breckenridge—Ditch—(Official)—Contract awarded to C. T. GLASSER, Minneapolis, $0.19 per cu.yd. for ditch work, in Ditch No. 4-A, Wilkin County. Noted Sept. 30.

Minn., Montevideo—Ditch—(Official)—Contract awarded to MARSHALL CEMENT & SIDEWALK CO., Marshall, at $8,918, for County Ditch No. 17. Noted Oct. 7.

Mont., Kalispell—Irrigation—Contract awarded to NELSON RICH for Glen Lake Irrigation project on Tobacco Plans.

Ark., Pocahontas—Ditches—Contract awarded to W. S. COLEMAN, Paragould, at $24,052, for Cook slough ditch in Township No. 18. Noted Sept. 23.

Idaho, Twin Falls—Canal Improvements—Contracts for enlarging highline canal and replacing siphons in upper Rock Creek District awarded to IDAHO CONSTRUCTION CO., BOISE, SMITH & GREEN, and MORRISON KNUDSEN CO. Estimated cost, $88,000. Noted Sept. 16.

Calif., Modesto—Canal Work—Contracts for canal work at Modesto Irrigation District awarded as follows: Main canal lining to J. WILSON, Modesto, at $62,962; Dam No. 6 to TIBBETTS-PACIFIC CO., San Francisco, at $9,080; Dam No. 1 to J. MONK, San Francisco, at $34,039; 11 concrete structures to C. HOLMES. Noted Oct. 14.

MISCELLANEOUS

Proposed Work

Elevated Railway—New York, N. Y.—(Borough of Brooklyn)—Contract form and plans for reconstruction of Brighton Beach Elevated line submitted to Public Service Commission of First District by New York Municipal Railway Corporation approved. Estimated cost from $75,000 to $100,000.

Elevated Railway—New York, N. Y.—(Borough of Brooklyn)—Public Service Commission of First District approved contract form submitted by New York Municipal Railway Corporation for steel for additional tracks for Myrtle Ave. elevated railway from Willoughby Ave. to Palmetto St., also for improvements on Lutheran Cemetery line.

Station Finish—New York, N. Y.—(Borough of Brooklyn)—(Official)—Bids will be received by Public Service Commission of First District, 154 Nassau St., New York (Borough of Manhattan), until 12:15 p.m., Oct. 26, for station finish for 11 stations on the Broadway-Fourth Ave. Rapid Transit R.R.

Elevated Railway—New York, N. Y.—(Borough of Queens)—Plans and contract form submitted to Public Service Commission of First District for foundations and structures on Section 3, Jamaica elevated extension, consisting of 2.2 mi. two-track elevated railway along Jamaica Ave. from Walnut St. to Cliffside Ave., approved.

Subway Work—New York, N. Y.—(Borough of Queens)—(Official)—Bids for a storm drain, which were to have been opened Oct. 19, have been postponed by Public Service Commission until Nov. 3.

Grade Crossings—Paterson, N. J.—Plans being considered by Erie R.R. for constructing grade crossings in Paterson. R. C. Falconer, New York, N. Y., Supt. Constr.

Flood Protection—Erie, Penn.—City Council contemplates $1,000,000 bond issue for flood protection in Mill Creek. F. Gannett, Harrisburg, Consult. Engr. Noted Sept. 23.

Seawall—Bay St. Louis, Miss.—All bids received for seawall about 8,000 ft. long along beach at Waveland rejected. New bids will be received. Noted Aug. 26.

Elimination of Grade Crossings—Akron, Ohio—Plans being considered by Pennsylvania R.R., Baltimore & Ohio R.R., Erie R.R. and County Commissioners for eliminating Wooster crossing, east of Akron, Tuscarawas Ave. crossing, Barberton, and Manchester crossing, Kenmore.

Elimination of Grade Crossing—Bratenahl, Ohio—(Cleveland post office)—Bids will be received until noon, Oct. 27, by C. A. Neff, Clk., for sale of $38,918 bonds for eliminating grade crossing on East 105th St.

Retaining Wall—Cincinnati, Ohio—Bids will be received noon, Oct. 25, by Philip Fosdick, Dir. of Pub. Service, for retaining wall on St. Clair Ave.

Steel Tanks—Cincinnati, Ohio—Stegner & Hughes, Cincinnati, prepared plans for four steel tanks for Moore Oil Co., at York and McLean Ave.

Bars and Cable—Cleveland, Ohio—Bids will be received until noon, Oct. 27, by A. R. Callow, Comr. of Purchases and Supplies, Room 511, City Hall, for steel reinforcing bars and lead covered cable for Fire, Light and Water Departments.

Levee—Portsmouth, Ohio—(Official)—Bids will be received about Nov. 2 for levee work at Portsmouth. George S. Wilhelm, City Engr. Noted Sept. 23.

Retaining Wall—Springfield, Ohio—City will build retaining wall on East High St.

Steel Pipe Line—Youngstown, Ohio—East Ohio Gas Co. will build pipe line from Youngstown to Canton, about 52 miles.

Elimination of Grade Crossings—Youngstown, Ohio—Erie R.R. and city plan to eliminate grade crossings.

Elimination of Grade Crossing—Indianapolis, Ind.—Pennsylvania R.R. directed by Board of Public Works to elevate tracks from Ray St. to a point 300 ft. south of Harris Ave.

Levee Improvement—Indianapolis, Ind.—Board of Public Works authorized improvement of White River Levee. B. J. T. Jeup, City Engr.

Ore Docks—Two Harbors, Minn.—Duluth & Iron Range R.R. Co. plans ore docks at Two Harbors. Estimated cost, $1,500,000.

Dikes—Peasanton, Kan.—Citizens contemplate dikes on Marais des Cygnes River to reclaim 1300 acres. J. Gearhart, State Engr.

Machinery and Pier—Beaumont, Tex.—Bids will be received until noon, Nov. 1, by Board of Wharf and Dock Commission, City Hall, for 500-ft. pier, shed and freight-handling machinery at Kirby's Point, Beaumont. H. McL. Harding, Consult. Engr.

Wharf—Beaumont, Tex.—Bonds for $100,000 sold for wharf. Noted Sept. 23.

Pipe Line—Brenham, Tex.—Chappell Hill Oil Co. will build pipe line from Brenham to Wofford, 7½ miles. Estimated cost, $25,000. J. B. Heartfield and F. O. Prescott, interested.

Levee—Ennis, Tex.—Plans approved and bids will soon be received for levees on Trinity River, Ellis County Levee District. Estimated cost, $120,000. O. W. Finley, Waxahachie, Engr. Noted Oct. 14.

Pipe Line—Duncan, Okla.—Corsicana Petroleum Co. has received franchise to lay pipe line through Stephens County to oil wells.

Pipe Line—Martinez, Calif.—Shell Oil Co. plans pipe line from wells to refinery, about six miles. Estimated cost, $45,000.

Retaining Walls—Sanger, Calif.—Bids will be received by D. M. Barnwell, Clk., Bd. of Supervisors of Fresno County, Fresno, until 2 p.m., Nov. 1, for four retaining walls near Sanger.

Bids In and Contracts Awarded

Structural Steel—New York, N. Y.—(Borough of Brooklyn)—Lowest bid submitted for furnishing 60,000 tons structural steel for new lines and terminals and reconstructing existing lines and terminals was that of American Bridge Co. as follows: East New York Division, 18,000 tons at $48 per ton; Fulton St. line, 24,000 tons at $42 per ton; Brighton Beach line, 2,100 tons at $42 per ton; Coney Island terminal, 15,000 tons at $45 per ton.

Track Supplies—New York, N. Y.—(Borough of Manhattan)—(Official—Bids were received Oct. 15 by Public Service Commission of First District for track supplies: William Wharton & Co., Jr., $27,965; Pennsylvania Steel Co., 71 Broadway, New York, $23,950 and Ramapo Iron Works, $24,116 for work under Order No. 5 and for ballast for Rapid Transit Ry.; Upper Hudson Stone Co., 26 Cortland St., New York, at 97 cents for class A, 87 cents for class B, total $77,374. Noted Oct. 14.

Pier—Greenville, N. J.—Contract for pier for Pennsylvania R.R. awarded to HENRY STEER, INC., New York, N. Y.

Coaling Dock—Pensacola, Fla.—Contract for coaling dock for Louisville & Nashville R.R. awarded to ROBINSON-SCHAEFER CO., Chicago, Ill. Noted Oct. 4.

Levees—New Orleans, La.—Contract awarded to DON B. HEAN & SON, at 17.23c. per cu.yd. for levee work on lower coast.

Levees—Shreveport, La.—Contracts for levees awarded as follows: Upper Missionary and Thompson levee, approximately 34,000 cu.yd. and 110,000 cu.yd., to NOEL BROS., at 12.48c. and 13.68c. per cu.yd., respectively; West Egypt and Cedar Bluff levee, approximately 55,000 cu.yd. and 40,000 cu.yd., to F. M. HEARNE, at 10.98c. and 11.50c. per cu.yd., respectively; Loggie Lea and Long Point levee, approximately 100,000 cu.yd. and 30,000 cu.yd., to HALL NATTIN, at 15.20c. and 17.40c. per cu.yd., respectively; Campo Bello levee, approximately 55,000 cu.yd., to DOUGLAS & BURT, at 15.90c. per cu.yd. Noted Sept. 16.

Dikes—Kelso, Mich.—Contract awarded to COLLIER & STEVENSON, Portland, Ore., for dikes in Wahkrakum County Diking District No. 1.

Levee—South Bend, Ark.—Contract for levee at South Bend awarded to BROWN & FARLEY, Little Rock, at 13.95c. per cu.yd. Noted Sept. 30.

Dike—Cathlamet, Wash.—Montague O'Reilly Co., Portland, Ore., at $98,614, low bidder for 17 miles of dike on Columbia River. G. A. Kyle, Portland, Engr. Noted Sept. 9.

Pier—Redondo Beach, Calif.—Contract awarded to McARTHUR BROS., San Francisco and New York, N. Y., at $108,800, for reinforced-concrete municipal pier. Noted Aug. 12.

Jetties—Salinas, Calif.—Contract awarded to L. G. HARE, at $19,880, by Board of Supervisors of Monterey County for jetties on Salinas River.

Pier—San Francisco, Calif.—Clinton Construction Co., at $283,000, was low bidder for Pier 29 for Board of State Harbor Commissioners.

Wharf—Esquimalt, B. C.—Contract for wharf and warehouse at Esquimalt awarded to TAYLOR ENGINEERING CO., Vancouver. Estimated cost, $60,000.

BUILDINGS

Other items relative to Building Construction will be found under the following headings: "Industrial Works;" "Federal Government Work" and "Miscellaneous."

Proposed Work

Mass., Agawam—Bids will be received Nov. 15 by Hampden County Commissioners for 65x168-ft. brick training school.

Mass., Boston—Back Bay Council K of C has retained Maginnis & Walsh, 100 Boylston St., to prepare plans for three-story, 150x150-ft. clubhouse at Boylston Rd. and Ipswich St., Fenway. Estimated cost, $300,000.

Mass., Holyoke—Bids will soon be received by Board of Public Works for isolation hospital and boiler house. Estimated cost, $40,000.

Mass., Salem—Bids will be received about Oct. 25 for hospital. Haven & Hoyt, 220 Devonshire St., Boston, Arch.

Mass., Taunton—State plans to build armory. Estimated cost, $60,000.

Mass., Westfield—School Board plans to build brick school estimated to cost $60,000. J. M. Dutton, Chn.

Mass., Westfield—Hampden County Commissioners will build county building. Estimated cost, $90,000.

Mass., Woburn—State plans to build armory. Estimated cost, $60,000.

R. I., Providence—(Official)—Bids will be received until 10 a.m., Oct. 28, by Board of Control and Supply for dormitory for State Home and School, 1142 Smith St. William A. Schofield, Chn.

Conn., Bridgeport—Middle Street Realty Co. will build business block on site of Read Carpet Co. building.

Conn., New London—An addition will be built to Griswold Hotel. Estimated cost, $300,000.

Conn., Stratford—Southern New England Telephone Co. will build two-story telephone building.

N. Y., Albany—(Official)—Bids will be received until 3 p.m., Oct. 25, by Trustees of Public Buildings, Executive Chamber, Capitol, for alterations in executive offices of capitol. Noted Sept. 23. (See adv.)

N. Y., Buffalo—(Official)—Bids for church for St. John the Evangelist will not be received until spring. S. F. Heckert, Bessemer Bldg., Pittsburgh, Penn., Arch. Noted Oct. 14.

N. Y., Buffalo—(Official)—We have been advised that Bank of Buffalo is uncertain when it will commence construction of its proposed bank building. E. C. McDougal, Pres. Noted Sept. 30.

N. Y., New York—(Borough of Brooklyn)—(Official)—Bids being received for four-story, 80x100-ft. brick and steel sales station and service station for Ford Motor Co. at Bedford Ave. and Sterling Pl. Estimated cost, $100,000. Francisco & Jacobus, 200 Fifth Ave., New York, Arch. Noted Sept. 23.

N. Y., New York—(Official)—(Borough of Manhattan)—Bids will be received until 4 p.m., Oct. 22 by State Armory Commission, Franklin W. Ward, Secy., Capitol, Albany, for improvements to State Arsenal, Seventh Ave. and 35th St.

N. Y., Potsdam—(Official)—Plans will probably be ready for bids about Nov. 15 for two-story normal school for New York State Department of Education. Lewis F. Pilcher, Capitol, Albany, State Arch. Noted Oct. 14.

N. J., Paulsboro—Board of Education will build school. Clyde S. Adams, Arch.

N. J., Vineland—(Official)—Bids will be received until Oct. 22 by Board of Managers for dining and service building for State Home for Feeble Minded. Estimated cost, $50,000. George S. Drew, Trenton, State Arch. Noted Oct. 7.

Penn., Philadelphia—(Logan)—(Official)—Bids will be received about Nov. 20 by Neff & Thames, Philadelphia, for Methodist Episcopal Church at 13th and Rockland St. Estimated cost, $40,000. Noted Sept. 30 and Oct. 7.

Penn., Philadelphia—Bids will be received about Jan. 1 by Board of Education for three-story brick school at 55th and Chestnut St. Estimated cost, $200,000.

Penn., York—City will build library. Donation of $500,000 made.

Del., Newark—Day & Klauder, Arch., preparing plans for two-story stone and brick building for Delaware College.

Md., Baltimore—(Official)—Bids will be received about Nov. 15 for four-story 130x147-ft. brick building for John Hopkins University. Carrere & Hastings, 52 Vanderbilt Ave., New York, N. Y., Arch. Estimated cost, $50,000.

W. Va., Murraysville—Wilder & Wight, Arch., Kansas City, Mo., preparing plans for granite bank building for Farmer's Trust Co.

Fla., Miami—N. Victor Frohling, Miami, preparing plans for 175-room hotel. Estimated cost, $300,000.

Tenn., Bristol—City plans $60,000 bond issue for new school.

Ky., Covington—Election will be held in Kenton County to vote $150,000 bonds for high school.

Ky., Dawson Springs—H. G. O'Kain, representing a syndicate of Nashville men, has secured site and plans sanitorium. Estimated cost, $250,000.

Ky., Georgetown—Election will be held Nov. 3 to vote on $90,000 bonds for schools. Noted Oct. 14.

Ky., Hopkinsville—Election will be held in November to vote on $100,000 bonds for schools.

Ohio, Berkeley—Bids will be received by M. C. Deppman, Clk., Bd. of Education, until noon, Nov. 13, for school. Schriber, Beelman, Toledo, Arch.

Ohio, Cincinnati—(Official)—Bids will be received about Dec. 1 for Y. M. C. A. building. Elzner & Anderson, Arch. Noted Oct. 7.

Ohio, Cleveland—S. H. Weis, 1030 Schofield Bldg., prepared plans for three-story commercial and apartment building at 1826 Crawford Rd. for W. J. Bennet. Estimated cost, $45,000.

Ohio, Cleveland—Construction work will soon commence on group of buildings for Masonic Temple at 3515 Euclid Ave. Estimated cost, $500,000. Hubbell & Benes, Arch. Noted Aug. 5.

Ohio, Cleveland—Christian, Schwarzenberg & Gaede, 1900 Euclid Bldg., Cleveland, preparing plans for three-story store and service building at 2248 Euclid Ave. for Studio Realty Co. Estimated cost, $60,000.

Ohio, Cleveland—First Church of Christ has purchased site on Euclid Ave. and will build church. Estimated cost, $100,000. Noted Sept. 2.

Ohio, Cleveland—Frank D. Skeel, 213 Vickers Bldg., Cleveland, preparing plans for six-story hotel on East 61st St. for G. W. Crile.

Ohio, Cleveland—Jacob Babin, 319 Williamson Bldg., Cleveland, will build a commercial building at Superior Ave. and East 115th St. Estimated cost, $100,000.

Ohio, Cleveland—(Official)—We have been advised J. A. Wigmore Co. will not build coliseum. Noted Oct. 7.

Ohio, Columbus—Citizens will not be asked to vote on $2,000,000 bond issue for new schools until 1916.

Ohio, Columbus—Bids will be received by C. F. Steeb, Secy., Bd. of Trustees of Ohio State University, until Nov. 15, for hospital and shops for university.

Ohio, Dayton—Dayton Military Academy plans building for vocational school at estimated cost of $150,000. Isaac Warner, 145 Rung St., interested.

Ohio, Lakewood—Election will be held Nov. 2 to vote on $500,000 bonds for school and improvements to schools.

Ohio, Toledo—Toledo Hospital plans to build addition. Estimated cost, $60,000.

Ohio, Wilberforce—(Official)—Bids will be received until noon, Nov. 4, by Board of Trustees, Wilberforce University for recitation building. Frank L. Packard, Columbus, Arch.

Ind., Anderson—Y. M. C. A. plans building. Estimated cost, $250,000.

Ind., Bloomington—Bids will be received until Dec. 1 by Trustees of Indiana University for gymnasium. Estimated cost, $175,000. Noted Aug. 19.

Ind., Brazil—Johnson & Miller, Brazil, retained by city to prepare plans for high school. Estimated cost, $70,000. Noted Aug. 5.

Ind., Evansville—Illinois Central R.R. plans new freight depot. Estimated cost, $50,000. A. S. Baldwin, Chicago, Ill., Ch. Engr.

Ind., Ft. Wayne—Flick Floral Co. will build three-story and basement building at 810 Harrison St. Aaron and Alice M. Shive, interested. Estimated cost, $125,000.

Ind., Indianapolis—Leasehold Realty Co. will build 14-story building at Market and Delaware St. Thomas B. Fulmer, Pres.

Ind., Rockport—County Council will not appropriate $100,000 for new courthouse. Noted Aug. 19.

Mich., Bay City—Henry B. Smith is president of company which will build hospital. Estimated cost, $50,000.

Mich., Detroit—St. Agnes Catholic Parish will build church and school. Estimated cost $60,000. Charles E. Henigan, Pastor.

Mich., Detroit—Statler Hotel, Detroit, will build addition to hotel on Washington Blvd.

Mich., Detroit—Donaldson & Meier, Detroit, prepared plans for club house at Atkinson and Clairmount St. for Ingleside Club. Estimated cost, $44,000.

Mich., Jackson—Election will be held Oct. 23 to vote on $385,000 bonds for high school.

Mich., Owosso—Woodward Bros., and J. C. Osborn will build hotel at estimated cost of $100,000.

Ill. Aurora—Plans prepared for eight-story hotel at Island Ave. and Main St. for Island Improvement Co. Noted Aug. 19.

Ill., Chicago—James A. Bidderman, 38 South Dearborn St., will build six six-story apartments and one 18-apartment building at Sunnyside Ave. and Hazel St. Estimated cost $225,000.

Ill., Chicago—Marshall & Fox, 38 South Dearborn St., preparing plans for theater for Jones, Linick, Schaefer & Co., 110 South State St. Noted Oct. 7.

Ill., Chicago—Plans prepared by James B. Dibelka, State Arch., and Holabird & Roche, for armory for First Cavalry, Illinois National Guard, near Lake Shore Drive and Chicago Ave. Noted Sept. 23.

Ill., Springfield—W. B. Ittner, St. Louis, prepared plans for high school.

Wis., Madison—State Board of Education approved plans prepared by Arthur Peabody for remodeling university gymnasium.

Wis., Milwaukee—University Club will build clubhouse at Oneida St. and Juneau Pl. Estimated cost, $300,000.

Wis., Milwaukee—School Board will build two schools in 1916, one on Green Bay Ave. and other on Franklin St. Estimated cost, $260,000.

Wis., Milwaukee—St. Mary's Church will build school. Estimated cost, $40,000.

Wis., Platteville—(Official)—Bids will be received in January for 2½-story and basement science building for State Board of Normal Regents. Estimated cost, $100,000. Noted Oct. 14.

Wis., Superior—(Official)—Bids will be received about Jan. 1 for three-story and basement training school for State Board of Normal Regents. Estimated cost, $80,000. Noted Oct. 7.

Wis., Superior—Plans being prepared by Emil Ulrich, Arch., 706 Euclid Bldg., Cleveland, Ohio, for Sacred Heart Cathedral for Diocese of Superior. Estimated cost, $150,000.

Wis., Waukesha—Carroll College will build boys dormitory. Estimated cost, $100,000. Wilbur O. Canier, Pres.

Iowa, Carroll—Bonds for $80,000 voted for school.

Iowa, Sioux City—Trinity Luthern Church will build edifice and parsonage at estimated cost of $100,000. A. J. Stenseth, Chn. Finance Com.

Minn., St. Paul—Election will be held in spring to vote on $500,000 bond issue for schools.

Kan., Hiawatha—Bonds for $60,000 sold for school construction.

Kan., Salina—Bids will be received until Oct. 27 by J. C. Housel, Clk., Bd. of Education, for school. Estimated cost, $60,000. William T. Schmitt, 1634 West Tenth St., Oklahoma, Okla., Arch.

Kan., Wellington—(Official)—Bids will be received after Dec. 1 by G. A. Halliday, Secy., Y. M. C. A., for building. Estimated cost, $50,000. Noted Oct. 7.

Kan., Wichita—Election will be held to vote on $100,000 bonds for jail.

Neb., Lincoln—W. E. Sharp, Pres. Lincoln Traction Co., will build office and store at Tenth and O St. Estimated cost, $500,000.

Wyo., Sheridan—George H. Brown is having plans prepared by Baerresen & Wieger, Arch., for hotel on site of Western Hotel. Estimated cost, $125,000.

Mo., Carthage—Bids will be received until Nov. 11 by L. M. Thomas, County Clk., of Jasper County, for purchase of $100,000 bonds for sanitarium. Noted Sept. 30.

Mo., Carthage—First Presbyterian Congregation will build church. Estimated cost, $40,000.

Mo., Kansas City—Plans being prepared for four-story brick hotel at Ninth and Charlotte St. for Hoffman Bros. Investment Co., 524 Ridge Bldg. Estimated cost, $45,000. W. Hilton Smith, 518 Massachusetts Bldg., Arch.

SEWER SYSTEM—OCALA, FLA.

Bids were received Sept. 14 for the construction of a sewer system at Ocala, Fla., from: (A) G. W. Ensign Inc., Harrisburg, Penn.; (B) J. F. Morgan Contracting Co., Attalla, Ala.; (C) J. B. Sheets Co., Pittsburgh, Penn.; (D) O'Sullivan, Long & Haggerty, Bessemer, Ala.; (E) Independent Construction Co., Terre Haute, Ind.; (F) Stamm & Son, St. Petersburg, Fla.; (G) Michler & Flynn, Chattanooga, Tenn.; (H) Guild & Co., Chattanooga, Tenn.; (I) H. W. Tucker, Ocala, Fla.; (J) BRYAN & CO., Jacksonville, Fla., (awarded contract); (K) W. J. Irwin & Son, Greenville, Ohio; (L) Whaley & Edwards, Milan, Mich.; (M) Duval & Ashworth, Miami, Fla. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M
5,580 lin.ft. 6-in. service pipe 6 ft. deep	$0.29	$0.25	$0.28	$0.30	$0.32	$0.30	$0.23	$0.27	$0.183	$0.18	$0.25	$0.51	$0.40
208 lin.ft. 6-in. vertical service pipe in deep trenches	.32	.25	.15	.20	.17	.30	.23	.24	.122	.35	.20	.30	.16
10,270 lin.ft. 8-in. sewer pipe, 0-4 ft. deep	.39	.26	.37	.24	.34	.40	.27	.29	.28	.23	.30	.52	.42
65,115 lin.ft. 8-in. sewer pipe 4-6 ft. deep	.52	.32½	.40	.32	.34	.472	.38	.37	.34	.26	.35	.57	.45
18,135 lin.ft. 8-in. sewer pipe 6-8 ft. deep	.84	.43	.46	.45	.46	.65	.56	.44	.54	.39	.40	.69	.58
5,520 lin.ft. 8-in. sewer pipe 8-10 ft. deep	.85	.55	.61	.60	.75	.85	1.09	.78	.65	.60	.50	1.07	.70
1,955 lin.ft. 8-in. sewer pipe 10-12 ft. deep	1.21	.80	.69	.90	1.00	1.15	1.58	1.37	.88	.85	.70	1.45	.90
100 lin.ft. 8-in. sewer pipe 12-14 ft. deep	1.68	1.50	.70	1.30	1.20	1.35	2.20	2.19	1.07	1.60	1.00	1.82	1.20
105 lin.ft. 8-in. sewer pipe 14-16 ft. deep	2.71	2.25	.93	1.80	1.70	1.75	3.50	2.85	1.20	1.85	1.40	2.98	1.50
115 lin.ft. 8-in. sewer pipe 16-18 ft. deep	3.00	2.75	1.20	2.40	2.00	2.30	5.00	4.19	1.40	2.25	1.60	3.57	2.00
1,985 lin.ft. 10-in. sewer pipe 0-4 ft. deep	.42	.32	.40	.30	.44	.50	.36	.35	.39	.30	.35	.46	.50
2,245 lin.ft. 10-in. sewer pipe 4-6 ft. deep	.51	.40	.43	.40	.44	.60	.45	.44	.46	.33	.45	.56	.58
1,630 lin.ft. 10-in. sewer pipe 6-8 ft. deep	.67	.48	.42	.50	.54	.80	.63	.52	.62	.46	.55	.70	.73
1,345 lin.ft. 10-in. sewer pipe 8-10 ft. deep	.80	.65	.57	.70	.80	1.05	1.15	.89	.75	.67	.85	1.05	.95
570 lin.ft. 10-in. sewer pipe 10-12 ft. deep	1.24	1.25	.65	1.00	1.07	1.30	1.64	1.57	1.12	.92	1.00	1.40	1.25
370 lin.ft. 10-in. sewer pipe 12-14 ft deep	1.71	2.00	.73	1.40	1.27	1.50	2.29	2.37	1.23	1.67	1.20	2.48	1.50
170 lin.ft. 12-in. sewer pipe 0-4 ft. deep	.47	.45	.39	.40	.52	.65	.44	.43	.54	.37	.50	.62	.65
1,040 lin.ft. 12-in. sewer pipe 4-6 ft. deep	.57	.50	.42	.55	.52	.76	.53	.53	.60	.40	.60	.70	.75
990 lin.ft. 12-in. sewer pipe 6-8 ft. deep	.72	.60	.48	.65	.64	1.00	.70	.63	.71	.53	.80	.85	0.90
15 lin.ft. 12-in. sewer pipe 8-10 ft. deep	.85	1.25	.63	.85	.90	1.25	1.24	1.04	1.15	.75	1.00	1.00	1.20
1,235 lin.ft. 15-in. sewer pipe 0-4 ft. deep	.54	.61	.53	.55	.67	.85	.58	.58	.67	.57	.70	.78	.75
780 lin.ft. 15-in. sewer pipe 4-6 ft. deep	.64	.70	.57	.70	.67	.95	.77	.69	.75	.67	.80	.82	1.00
1,075 lin.ft. 15-in. sewer pipe 6-8 ft. deep	.79	.90	.64	.80	.87	1.40	1.38	.78	1.10	.80	1.00	.98	1.25
390 lin.ft. 15-in. sewer pipe 8-10 ft. deep	.97	1.20	.84	1.00	1.05	1.65	1.85	1.24	1.31	1.10	1.20	1.18	1.65
23 manholes 0-4 ft. deep	26.00	29.50	22.00	20.00	30.00	28.00	23.00	24.00	30.00	25.00	29.00	20.00	29.00
135 manholes 4-6 ft. deep	30.00	33.50	24.00	25.00	35.00	36.50	28.00	28.00	34.00	27.50	34.00	25.00	37.00
41 manholes 6-8 ft. deep	40.00	37.50	29.00	32.00	40.00	45.10	33.00	32.00	42.00	30.00	42.00	35.00	45.00
28 manholes 8-10 ft. deep	47.50	46.00	34.00	40.00	45.00	56.00	40.00	39.00	51.00	35.00	50.00	45.00	55.00
8 manholes 10-12 ft. deep	52.00	55.50	39.00	50.00	50.00	64.00	45.00	45.00	60.00	40.00	58.00	55.00	67.00
1 manhole 12-14 ft. deep	55.00	68.00	46.00	60.00	55.00	70.00	51.00	54.00	74.00	60.00	70.00	65.00	82.00
1 manhole 16-18 ft. deep	62.00	77.50	59.00	80.00	60.00	100.00	62.00	63.00	93.00	80.00	95.00	75.00	100.00
22 drop connections to manholes	20.00	5.00	15.00	3.00	10.00	10.00	4.00	4.00	11.00	10.00	10.00	10.00	8.00
8 lamp holes	12.00	8.00	12.00	7.50	10.00	10.00	10.00	12.00	8.00	10.00	5.00	5.00	5.00
49 automatic flush tanks 0-6 ft. deep	80.00	62.00	75.00	60.00	70.00	60.00	70.00	65.00	59.00	55.00	60.00	70.00	85.00
2 automatic flush tanks 6-8 ft. deep	90.00	70.00	80.00	70.00	75.00	70.00	70.00	72.00	64.00	70.00	70.00	75.00	95.00
34 hand flush tanks 0-6 feet deep	50.00	38.50	40.00	30.00	45.00	45.00	60.00	35.00	48.00	40.00	34.00	60.00	45.00
3 hand flush tanks 6-8 ft. deep	55.00	50.00	45.00	40.00	50.00	57.50	60.00	40.00	56.00	45.00	45.00	70.00	55.00
40 Y-branches 15x6-in.	.95	1.20	.95	.50	1.00	.95	.90	.60	1.10	1.00	1.00	1.15	1.45
54 Y-branches 12x6-in.	.65	.85	.65	.35	.75	.65	.75	.48	.78	.75	.75	.78	1.00
192 Y-branches 10x6-in.	.50	.70	.50	.25	.55	.37	.60	.36	.65	.50	.60	.60	.80
2,481 Y-branches 8x6-in.	.35	.40	.25	.20	.40	1.10	.35	.24	.50	.10	.50	.47	.50
1,551 sq.yd. grouted brick taken up and relaid	1.80	1.70	2.00	.75	1.70	.25	1.60	2.00	1.20	.35	2.50	3.00	.40
1,585 sq.yd. sand filler brick taken up and relaid	1.20	.50	1.50	25	.48	.40	.50	.50	.30	.25	1.50	2.50	.20
7,381 sq.yd. macadam pavement taken up and relaid	.85	.30	.70	10	.60	2,952.40	.60	.50	.40	.20	.50	.70	.20
2 sewage settling tank (lump sum)	.....	3,960.06	2,500.00	6,000.00	4,000.00	3,950.00	4,150.00	7,468.20	4,100.00	4,750.00	3,900.00	.....	4,700.00
1 chemical and sludge pump house (lump sum)	.....	1,235.00	800.00	1,000.00	680.00	900.00	1,300.00	2,330.00	850.00	750.00	900.00	.....	900.00
1 sludge bed (lump sum)	.....	500.00	440.00	500.00	383.00	525.00	525.00	659.50	525.00	500.00	500.00	.....	300.00
1 settling basin (lump sum)	.....	710.00	215.00	700.00	563.00	290.00	750.00	986.00	550.00	650.00	500.00	.....	450.00
1 sewage pump and motor installed (lump sum)	.....	500.00	480.00	350.00	462.00	550.00	750.00	440.00	400.00	370.00	550.00	.....	1,300.00
1 chemical feed tank (lump sum)	.....	175.00	85.00	125.00	170.00	110.00	.....	225.00	125.00	150.00	125.00	.....	100.00
260 18-in. sewer pipe 4 ft. deep	.....	.70	1.25	.85	.80	1.22	.80	.94	.85	.75	.90	.85	1.25
30 8-in. sewer pipe 4 ft. deep	.....	.26	.45	.25	.35	.50	.35	.40	.35	.50	.30	.42	.52
50 6-in. soil pipe	.....	.60	.30	.50	.50	.65	.55	.33	.40	.60	.50	.12	.70
5 by pass manholes	.....	45.00	35.00	35.00	40.00	10.00	40.00	33.00	26.00	25.00	25.00	65.00	10.00
1 manhole over 10-in. well	.....	40.00	35.00	30.00	40.00	30.00	30.00	46.00	32.00	25.00	23.00	.....	30.00
1,487 cu.yd. fill	.....	.40	.50	.40	.50	.40	.50	.40	.34	.30	.30	.40	.10
30 cu.yd. class "A" concrete	10.00	12.00	7.50	10.00	10.00	15.00	10.00	12.00	8.50	7.00	9.00	3.50	10.00
3M ft. b.m. lumber in foundations and trenches	20.00	38.00	25.00	30.00	20.00	25.00	35.00	25.00	35.00	25.00	35.00	20.00	20.00
150 cu.yd. rock excavation	1.50	4.60	3.00	2.00	6.00	.50	3.00	3.00	2.50	3.00	2.50	3.50	1.25
25 18-in. comp. sewer joints	.....	1.00	.45	.75	.50	.55	.40	.40	.24	.25	.30	.30	.65
200 15-in. comp. sewer joints	.20	.75	.35	.60	.40	.45	.25	.27	.21	.15	.25	.25	.55
100 12-in. comp. sewer joints	.18	.50	.30	.45	.35	.35	.20	.20	.20	.12	.20	.25	.47
200 10-in. comp. sewer joints	.16	.35	.25	.35	.30	.30	.17	.17	.19	.10	.17	.20	.40
1,000 8-in. comp. sewer joints	.15	.25	.22	.25	.25	.25	.14	.13	.14	.08	.15	.20	.3
1 10-in. well approximately 300 ft. deep	.....	5.50	5.15	4.25	5.00	4.25	4.25	5.00	5.00	4.25	5.00	.....	4.00
72 ft. extra for 16-in. c.i. pipe	6.20	3.25	2.25	1.75	2.50	.....	1.70	1.70	2.50	2.00	4.00	.....	.....
928 ft. extra for 10-in. c.i. pipe	4.10	1.70	1.30	1.00	1.30	.....	1.00	.80	1.30	1.00	2.50	.....	.....
384 ft. extra for 8-in. c.i. pipe	2.90	1.40	1.00	.70	.95	.....	.75	.60	1.20	.75	2.00	.....	.....
Extended totals	$104,743	$81,227	$85,668	$74,549	$87,164	$99,023	$32,825	$91,259	$83,894	$66,740	$36,822	$109,293	$93,960

Mo., Kansas City—Bids will soon be received for Mercy Hospital building. Estimated cost, $150,000. Wilder & Wight, Kansas City, Arch. Noted Aug. 19.

Mo., St. Louis—Catholic Cathedral of St. Louis will build parish school. Estimated cost, $100,000.

Mo., St. Louis—F. Warner will build motion picture theater on St. Louis Ave. Estimated cost, $50,000.

Mo., St. Louis—Seventeenth St. Realty Co. will build additional story to Warwick Hotel. G. F. A. Brueggeman, St. Louis, Arch. Estimated cost, $50,000.

Tex., Beaumont—Kansas City Southern R.R. Co. will build passenger station. J. A. Edson, Pres. Estimated cost, $100,000.

Tex., Corpus Christi—Y. M. C. A. plans building. Estimated cost, $65,000. T. A. Anderson, Pres.

Tex, Corsicana—Citizens voted $125,000 bonds for schools.

Tex., Dallas—Bids will be received about Nov. 1 for temple for Emanuel Jewish Church. Hubbell & Green, Dallas, Arch. Estimated cost, $125,000.

Tex., Dallas—Van Slyke & Woodruff, Fort Worth, preparing plans for three-story brick and stone church for Oak Cliff Christian Church. Estimated cost, $40,000. A. E. Efell, Pastor.

Tex., El Paso—Bids will be received until noon, Oct. 20, by Board of Education for high school. Trost & Trost, Mills Bldg., Arch.

Tex., El Paso—Bids will be received until Nov. 9 by County Commissioners for court house and county jail. Trost & Trost, Arch. Estimated cost, $400,000.

Tex., El Paso—Bond issue for $100,000 for poorhouse and poor farm approved.

Tex., Palestine—Bids will soon be received for high school. Sanguinet & Staats, Fort Worth, Arch. Estimated cost, $100,000. Noted Aug. 5.

Tex., San Diego—(Official)—Bids will be received until noon, Oct. 23, by Charles Mull, Bldg. Comn., for two-story brick school. Lane & Dawdy, Arch.

Tex., Wichita Falls—Election will be held to vote on $150,000 bonds for court house.

Okla., Ardmore—W. F. Whittington will rebuild hotel which was recently destroyed by explosion. Estimated cost, $150,000.

Okla, Enid—J. B. Ferguson contemplates three-story brick business building.

Okla., Sand Springs—Charles Page, Tulsa, plans semi-charitable sanitarium and eye hospital. Estimated cost, $150,000.

Okla., Tulsa—Contract will be let in November for high school. Walter E. Gilham, Kansas City, Mo., Arch. Estimated cost, $300,000.

Calif., San Bernardino—(Official)—Election to vote $210,000 bonds for city hall, auditorium and parks postponed indefinitely. Noted July 29.

RAPID TRANSIT SYSTEM—NEW YORK, N. Y.

44th Duct Line

Bids were received, Aug. 4, by the Public Service Commission for the construction of the 44th duct line of the Queensboro Rapid Transit R.R. from, (A) E. C. Moore, (B) Knight & De Micco, Inc., (C) Beaver Engineering & Contracting Co., (D) Hanover Contracting Co., (E) William A. Mitchell, (F) Sorace Contracting Co., (G) Henry E. Fox Construction Co., (H) Goodwin Construction Co., (I) T. H. Reynolds Contracting Co., Inc., (J) Thomas Crimmins Contracting Co., (K) Joseph A. McElroy, (L) Kingsbridge Contracting Co., (M) James O'Leary, (N) G. M. Gest, (O) Frawley-Kaufman Contracting Co. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
3600 cu.yd. earth excavation, above and below mean high water	$2.20	$1.00	$1.25	$1.80	$1.26	$3.00	$2.00	$3.50	$1.60	$2.03	$1.70	$3.00	$4.00	$2.00	$2.50
1000 cu.yd. rock excavation	2.20	2.00	3.00	1.80	4.00	5.00	3.00	3.50	5.00	9.00	5.00	3.00	4.00	5.50	10.00
250 cu.yd. concrete masonry	10.00	8.00	7.00	9.00	6.50	8.00	7.00	7.00	7.00	8.00	25.00	8.00	10.00	8.50	9.00
10 cu.yd. brick masonry	15.00	10.00	12.00	15.00	15.00	8.00	10.00	15.00	13.00	15.00	15.50	18.00	15.00	15.00	15.00
250 lin.ft. vitrified or c.i. drain pipe, in place, 4-in. vitrified	.50	.50	.10	.40	.40	.20	.50	.40	.30	.33	1.00	.40	.10	.50	.50
111,000 duct ft. railroad ducts in place—as required by section 152	.13	.15	.161	.17	.14	.10	.20	.11	.125	.15	11	18	20	.135	15
6 ton riveted steel	60.00	60.00	80.00	50.00	54.00	30.00	40.00	60.00	55.00	50.00	110.00	60.00	50.00	55.00	60.00
6 ton steel beams and shapes	60.00	50.00	80.00	50.00	46.00	25.00	40.00	50.00	52.00	57.50	100.00	60.00	40.00	50.00	50.00
1 ton steel rods and bars	60.00	50.00	60.00	50.00	60.00	30.00	40.00	50.00	58.00	50.00	100.00	60.00	45.00	60.00	60.00
33 ton miscellaneous iron castings	40.00	50.00	45.00	50.00	50.00	33.00	40.00	50.00	60.00	35.00	79.00	30.00	50.00	45.00	50.00
100 sq.yd. street surface restored within curb lines	1.00	1.50	.10	.50	1.25	1.50	1.50	1.00	3.00	1.00	2.25	1.10	1.00	2.00	2.50
1250 sq.yd. street surfacd resotred between curbs (asphalt)	2.00	2.50	2.00	2.50	2.75	3.00	2.00	2.00	2.50	2.41	3.80	2.50	2.50	3.75	2.50
700 sq.yd. street surface restored between curbs (granite block)	.80	2.00	1.60	2.00	2.50	2.00	1.00	2.25	1.60	2.20	1.58	1.25	2.00	3.00	1.50
50 sq.yd. street surface restored between curbs (asphalt block)	1.00	2.50	3.00	3.00	3.50	2.00	2.00	3.50	2.75	2.80	2.50	3.50	2.50	4.00	3.00
500 lin.ft. water pipes, 6 in.	.01	.30	.25	.25	.30	.25	.40	.40	1.25	1.00	.65	1.00	.10	1.00	1.00
250 lin.ft. water pipes, 12 in.	.01	.50	.30	.40	1.00	.50	.60	.75	2.35	2.00	1.05	1.50	.15	1.20	2.00
100 lin.ft. water pipes, 30 in.	.01	2.00	.80	.60	1.50	1.00	2.00	2.00	5.50	2.00	4.50	2.50	.20	6.00	3.00
100 lin.ft. water pipes, 48 in.	.01	5.00	.80	1.00	3.00	2.00	2.00	3.00	10.50	3.00	6.50	6.00	.25	10.00	4.00
80 service connections for water pipe	.01	5.00	3.00	2.00	5.00	2.00	1.00	12.00	12.50	8.00	10.00	10.00	1.00	18.00	15.00
150 lin.ft. gas pipe, c.i. 4 in.	.01	.30	.25	.15	.50	.25	.20	.50	.75	.25	.60	.60	.10	.65	1.00
150 lin.ft. gas pipe, c.i. 6 in.	.01	.30	.30	.20	.70	.25	.40	.75	.85	.75	.75	.75	.12	1.00	1.00
100 lin.ft. gas pipe, c.i. 8 in.	.01	.40	.35	.25	.90	.30	.40	1.00	.95	.75	1.03	1.00	.15	1.25	1.00
100 lin.ft. gas pipe, c.i. 12 in.	.01	.50	.40	.30	1.10	.50	.60	1.50	1.25	1.00	1.75	1.25	.20	1.75	1.50
100 lin.ft. gas pipe, c.i. 16 in.	.01	1.00	.45	.40	1.25	.75	1.00	1.75	1.75	1.00	2.60	1.50	.25	2.00	1.75
150 lin.ft. gas pipe, c.i. 20 in.	.01	1.50	.50	.50	1.80	1.00	1.20	2.00	2.25	1.00	3.85	1.75	.30	3.00	2.00
200 lin.ft. gas pipe, c.i. 24 in.	.01	2.00	.55	.60	2.00	1.00	1.50	2.50	3.00	1.00	4.50	2.00	.30	4.50	2.50
100 lin.ft. gas pipe, c.i. 30 in.	.01	2.00	.80	.75	3.50	2.00	2.00	3.00	5.00	1.00	5.50	2.50	.35	6.50	3.00
100 lin.ft. gas pipe, w.i. 4 in.	.01	.50	.25	.15	1.00	.50	.20	.50	1.00	.25	.50	.50	.25	.90	1.00
100 lin.ft. gas pipe, w.i. 6 in.	.01	.75	.30	.20	1.00	.50	.40	.75	1.60	.25	.75	.75	.25	1.25	1.00
100 lin.ft. gas pipe, w.i. 8 in.	.01	1.00	.35	.25	1.00	.50	.40	1.00	2.00	.25	.95	1.00	.25	1.75	1.00
50 service connection for gas pipe	.01	5.00	8.00	2.00	3.00	10.00	1.00	10.00	15.00	5.00	6.00	10.00	1.00	12.00	15.00
30 ton c.i. hub and spigot pipe—straight	40.00	30.00	25.00	22.00	37.00	30.00	25.00	35.00	35.00	50.00	31.00	40.00	20.00	45.00	50.00
50 lin.ft. new gas pipe, w.i. 4 in	.01	.60	.40	.20	2.00	.50	.50	1.00	1.00	.75	1.00	.50	.90	.60	
50 lin.ft. new gas pipe, w.i. 6 in	.01	.75	.60	.25	2.00	.50	1.00	1.00	1.75	1.00	1.25	1.25	.50	1.25	.80
50 lin.ft. new gas pipe, w.i. 8 in	.01	.00	.80	.30	2.00	.50	1.50	1.50	2.70	1.30	1.75	1.50	.50	1.50	
20 ton c.i. hub and spigot pipe, special	50.00	75.00	60.00	65.00	62.00	75.00	60.00	50.00	75.00	70.00	75.00	60.00	40.00	80.00	60.00
100 lb. iron fittings for new w.i. gas pipe	.01	.10	.10	.15	.05	.10	.30	.10	.10	.05	.10	.10	.05	.20	.10
1000 duct ft. electric ducts and conduits	.01	.20	.20	.20	.30	.50	.40	.40	.50	.35	.40	.60	.05	.50	.80
200 lin.ft. electric ducts and conduits, w.i. pipe 2½ in.	.01	.30	.30	.20	.50	.40	.40	.40	.50	.25	.20	.75	.20	.50	.80
1800 lin.ft. electric ducts and conduits, w.i. pipe, 3 in	.01	.40	.40	.25	.50	.50	.40	.50	.55	.35	.30	.75	.20	.55	.80
1400 lin.ft. electric ducts and conduits, w.i. pipe, 3½ in	.01	.50	.50	.25	.50	.50	.40	.60	.60	.45	.37	.75	.20	.65	.80
10 service connections for electric conduits	.01	5.00	8.00	5.00	10.00	10.00	5.00	15.00	15.00	5.00	6.00	20.00	1.00	25.00	15.00
Extended totals	$34,905	$38,847	$38,918	$40,900	$41,728	$42,784	$45,555	$45,885	$46,460	$49,953	$50,119	$52,802	$53,050	$53,052	$57,396

Colo., Loveland—Election will be held Nov. 1 to vote on $125,000 bonds for high and grammar schools.

N. M., Deming—H. H. Kelly and associates contemplate hotel at estimated cost of $100,000.

Idaho, Gooding—At recent conference at Boise, Methodists planned college at Gooding. Estimated cost, $400,000. J. W. Hancer, Secy., General Bd. of Education of Methodists.

Wash., Peone—(Meade post office)—St. Michael's Jesuit Scholastic Institution will build seminary. A. F. Schinner, Spokane, in charge. Estimated cost, $100,000.

Wash., Seattle—Trustees of N. C. Healy Estate will build eight-story addition to Cobb-Healy Bldg., on Third Ave. near Pike St. Estimated cost, $100,000. Howells & Stokes, Henry Bldg., Arch.

Wash., Tacoma—Health & Gove, National Realty Bldg., Tacoma, prepared plans for reinforced-concrete gymnasium for Stadium High School. Estimated cost, $70,000.

Ore., Eugene—Ellis F. Lawrence, Portland, prepared plans for Womans' Memorial Building on campus of University of Oregon. Estimated cost, $100,000.

Ore., Marshfield—Election will be held in December to vote on $40,000 bonds for city hall.

Ore., Portland—(Official)—Bids will be received about Dec. 1 by School Clerk for Benson Polytechnic School. Estimated cost, $200,000. Noted Sept. 30.

Calif., Berkeley—Plans being prepared for campus buildings for University of California. Estimated cost, $1[illegible],000.

Calif., Covina—Masonic Homes Association having plans prepared by E. B. Spencer, Union League Bldg., for buildings for Orphans' Home. Estimated cost, $80,000.

Calif., El Centro—S. B. Zimmer, El Centro, preparing plans for high school for Central Union High School district. Estimated cost, $135,000.

Calif., Lodi—Election will be held Oct. 26 to vote on $[illegible],000 bonds for school.

Calif., Los Angeles—F. W. Braun will build two buildings, one at 59th St. and South Vermont Ave. and the other at 58th St. and Clauson Ave. Estimated cost, $75,000. W. J. Saunders and W. W. Mines & Co., Archs.

Calif., Taft—Citizens will vote on $60,000 bond issue for high school.

Que., Montreal—Bonds for $3,000,000 sold for construction of Catholic Churches in Quebec. Charles A. Stoneham & Co. in charge.

DAM—HARTFORD, CONN.
Contract No. 10

Bids were received Aug. 21 by the Board of Water Commissioners for the construction of the Richards Corner Dam, Contract No. 10, from, (A) C. W. BLAKESLEE & SONS, New Haven (awarded contract), (B) Larkin & Sangster, Seneca Falls, N. Y., (C) Winston & Co., 290 Broadway, New York, N. Y., (D) Coleman Bros., Chelsea, Mass., (E) T. Stuart & Son Co., Newton, Mass., (F) Peter F. Connolly & Co., Boston, Mass., (G) Bruno & Petitti, Boston, Mass., (H) Hugh Nawn Contracting Co., Boston, Mass., (I) H. S. Kerbaugh, Inc., 6 Church St., New York, N. Y., (J) Fred T. Ley & Co., Inc., Springfield, Mass., (K) Pierson Engineering & Construction Co., Hartford, (L) Walsh Construction Co., Davenport, Iowa, (M) J. F. Cuscan Co., Woolworth Bldg., New York, N. Y., (N) Bates & Rogers Construction Co., Chicago, Ill., (O) James A. Hart Co., 256 Broadway, New York, N. Y. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
25 acres clearing and grubbing	$125.00	$125.00	$100.00	$150.00	$125.00	$200.00	$175.00	$150.00	$160.00	$65.00	$200.00	$100.00	$150.00	$125.00	$200.00
26,000 cu.yd. earth excavation in cut-off trench below El. 360	.67	.80	1.15	2.00	1.50	2.25	1.25	1.25	.60	.95	1.00	.80	1.50	3.60	1.00
140,000 cu.yd. earth excavation for dam and highway not in item 2	.35	.40	.40	.40	.38	.45	.60	.55	.45	.64	.48	.40	.60	.40	.65
3900 cu.yd. rock excavation for conduit and under core-wall and waste weir	2.15	3.00	3.00	3.00	3.00	3.50	2.50	2.25	1.60	3.75	3.60	5.50	5.00	5.00	3.00
20,000 cu.yd. rock excavation not included in Item 4	1.48	1.60	1.40	1.50	1.50	1.25	1.75	1.65	1.15	2.00	2.00	3.00	2.00	1.25	2.25
3,000 sq.yd. special preparation of rock surfaces	.50	.45	.40	.50	.40	.50	.75	.25	.25	.30	.33	.50	.25	.30	.50
85,000 cu.yd. refilling and embanking of soil	.62	.55	.54	.45	.40	.50	.50	.55	.80	.65	.60	.72	.60	.70	1.00
180,000 cu.yd. refilling and embanking of gravelly material and rock	.27	.40	.47	.37	.40	.31	.40	.45	.60	.55	.43	.42	.45	.48	.90
37,000 cu.yd. refilling and embanking of cofferdams	.20	.20	.10	.49	.40	.50	.15	.30	.33	.12	.35	.40	.30	.15	.85
5,000 cu.yd. surface dressing and grassing	.70	.80	.60	.50	1.00	1.00	.40	.75	.54	1.00	.82	.75	2.00	.60	1.00
15,700 cu.yd. concrete masonry, Class A	3.90	3.90	3.50	3.80	4.40	3.95	4.75	3.50	4.00	3.00	4.75	4.25	4.00	4.90	5.00
2,000 cu.yd. concrete masonry, Class w	3.95	5.50	5.00	5.50	7.50	6.00	5.00	7.00	5.15	4.50	8.00	7.00	7.00	6.15	6.50
2,000 cu.yd. concrete masonry, Class C	4.20	5.50	6.00	5.50	7.50	6.00	5.00	6.00	5.30	3.00	5.50	7.00	7.00	5.25	8.00
100 cu.yd. concrete masonry, Class D	5.60	9.50	9.00	7.00	12.00	7.00	6.00	8.00	16.00	8.00	10.00	8.00	10.00	13.50	12.00
1,800 sq.ft. finishing concrete surfaces by scrubbing and washing with acid	.08	.08	.10	.10	.05	.05	.25	.05	.32	.05	.10	.03	.05	.10	.10
25 cu.yd. brick masonry	14.50	20.00	20.00	16.00	20.00	20.00	15.00	20.00	15.00	25.00	20.00	20.00	10.00	12.50	20.00
Grouting machines and equipment (lump sum)	300.00	500.00	350.00	400.00	500.00	450.00	100.00	100.00	250.00	300.00	1,000.00	4,000.00	400.00	1,000.00	500.00
200 making connections from machines to grout pipes	.50	2.00	.35	1.00	2.00	1.00	1.00	1.00	1.20	2.50	2.00	5.00	1.00	2.50	2.75
300 cu.yd. grout	4.75	4.00	5.00	5.00	5.50	5.00	6.00	3.00	10.00	10.00	7.00	8.00	6.00	5.00	7.00
3,000 lin.ft. drilling holes in rock and masonry	.35	.50	.40	.40	.55	.50	.50	.50	.44	.80	.75	.35	.25	.60	1.00
25,000 bbl. Portland cement	1.71	1.65	1.60	1.50	1.75	1.70	1.60	1.90	1.60	1.70	1.75	1.90	1.60	1.75	2.00
800 cu.yd. paving and dry rubble masonry	3.25	3.00	2.50	2.50	3.50	2.00	3.00	4.50	3.30	3.50	3.00	4.00	2.50	1.25	3.50
1,000 cu.yd. riprap	1.30	2.00	1.25	2.00	2.00	1.50	1.00	1.50	1.11	2.50	2.00	3.00	1.50	1.00	2.00
5 ton furnishing and laying c.i. pipe and special castings	50.00	55.00	35.00	60.00	60.00	50.00	50.00	60.00	70.00	100.00	70.00	100.00	50.00	45.00	70.00
1,000 lb. small steel pipe	.03	.06	.04	.05	.06	.06	.10	.04	.06¼	.05	.10	.06	.05	.05	.10
40,000 lb. metal for re-inforcing concrete and water stops	.04	.04	.04	.03	.04	.04	.04	.02½	.05	.03½	.04	.03½	.04	.03½	.05
35,000 lb. miscellaneous cast iron and steel	.04¼	.04½	.05	.05	.06	.07	.04	.03½	.06½	.05	.06	.06	.05	.04	.10
500 lb. bronze and copper	.75	.45	.60	.30	.50	.50	.50	.35	.75	.50	1.00	.50	1.00	1.00	.75
15,000 lb. receiving, hauling, storing and placing metal work furnished by Board	.03	.02	.02	.01	.02	.02	.01	.00¾	.03	.02	.03	.02	.02	.02	.02
200 lin.ft. vitrified pipe, 8 in. or less in diameter	.55	.40	.50	.50	.50	.50	1.00	.25	.35	.30	1.00	.75	.35	.35	.40
100 lin.ft. vitrified pipe, 10 in. to 15 in. in diameter	1.25	.85	1.00	.70	.85	.80	1.00	.50	.75	.75	1.50	1.50	.60	.75	.75
3,500 sq.yd. gravel surface for highways	.58	.50	.75	.40	.60	.50	.25	.60	.65	.50	.50	.80	.50	.50	.60
1,000 lin.ft. wooden guard rails	.30	.25	.25	.30	.35	.35	.40	.20	.35	.30	.35	.40	.35	.25	.50
Care and maintenance of highways (lump sum)	500.00	500.00	200.00	500.00	500.00	200.00	100.00	1,000.00	1,800.00	1,000.00	500.00	1,000.00	500.00	600.00	1,500.00
200 cu.yd. gravel and broken stone	2.10	1.50	1.00	2.00	2.00	1.50	1.00	2.00	2.50	1.50	2.00	2.00	2.00	2.25	2.50
100 lin.ft. test borings	4.50	8.00	5.00	4.00	5.00	5.00	†2.00	4.00	7.50	7.00	10.00	†2.00	5.00	10.00	5.00
Extended totals	$357,766	$396,999	$399,540	$414,940	$426,290	$433,195	$438,750	$442,805	$449,646	$461,190	$465,285	$485,539	$486,970	$512,267	$723,860

† These prices excluded in computing average bid.

Ont., **London**—Utilities Board contemplates office building. E. V. Buchanan, City Hall, Gen. Mgr. Estimated cost, $75,000.

Alta., **Calgary**—Calgary Roman Catholic District No. 1 will build three schools. Estimated cost, $50,000. A. B. MacDonald, Treas.

Bids In and Contracts Awarded

N. H., Dover—Contract awarded to E. H. FROST, Dover, for addition and alterations to Museum for Woodman Institute.

R. I., Westerly—Contract awarded to CHARLES B. MAGUIRE CO., Providence, at $50,000, for three-story and basement brick bank building for Industrial Trust Co.

Mass., West Springfield—Contract for Carnegie Library at Park and Elm St. awarded to E. T. DAVIS & CO.

N. Y., Jamestown—Contract awarded to NATIONAL ENGINEERING CO., 504 Marshall Bldg., Cleveland, at $200,000, for ten-story building for Chamber of Commerce.

N. Y., New York—(Borough of the Bronx)—(Official)—Contract awarded to R. H. CASEY, Inc., 245 West 16 St., at $175,000, for four-story, 100x200-ft. hospital at 196th St. and Grand Concourse for Home of Holy Comforter. J. B. Snook Sons, 261 Broadway, Arch. Noted July 29 and Aug. 12.

N. Y., New York—(Borough of the Bronx)—(Official)—Contract awarded to WILLIAM CRAWFORD, 5 East 42d St., at $250,000, for three-story, 194x196-ft. brick ayslum at Grand Blvd., 193d St. to Kingsbridge Rd. for Society for the Relief of Destitute Blind.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contract awarded to H. C. STOWE CONSTRUCTION CO., for alterations and additions to P. S. 89 at Newkirk Ave. near East 31st St. Noted Aug. 19.

N. Y., New York—(Borough of Brooklyn)—(Official)—Contract for building for St. John's Hospital for Crippled on President St. awarded to WILLIAM KENNEDY CONSTRUCTION CO., 215 Montague St. Estimated cost, $75,000.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to JOHN T. BRADY CO., 103 Park Ave., at about $130,000 for five-story, 100x125-ft. parochial school at 329 West 13th St., for St. Bernard's Parish. Noted Sept. 16.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to EDWARD CORNING, 52 Vanderbilt Ave., at $40,000, for alterations to building at 716 Fifth Ave. for Metropolitan Trust Co.

N. Y., New York—(Borough of Manhattan)—(Official)—Contract awarded to WILLIAM L. CROW CONSTRUCTION CO., 103 Park Ave., New York, at $50,000, for six-story, 22x109-ft., loft and office building at 24 East 42d St. for William Parsons. H. L. Walker, 103 Park Ave., is Arch.

N. Y., Rochester—Contract awarded to A. W. HOPEMAN & SONS' CO., Rochester, for edifice for Parsells Ave. Baptist Church.

N. Y., Syracuse—Onondago Building and Construction Co., at $202,298, was low bidder for Delaware school at Delaware and Geddes St. Noted Sept. 28.

N. J., Bayonne—(Official)—Contract awarded to E. E. PAUL CO., 101 Park Ave., New York, N. Y., at $45,000, for two-story, 50x77-ft., brick building for New York Telephone Co., 15 Dey St., New York. Noted Sept. 30.

N. J., Hoboken—(Official)—Contract awarded to WHITNEY CO., 1 Liberty St., New York, N. Y., for buildings for Stevens Institute. Ludlow & Peabody, 101 Park Ave., New York, N. Y., Arch.

N. J., Jersey City—John T. Brady Co., 103 Park Ave., New York, N. Y., at $754,840, was low bidder for Hudson County Jail. Bids opened Oct. 7. Noted Sept. 23.

N. J., Skillman—Contract awarded to EDWARD F. FAY & SON, Philadelphia, Penn., for building for New Jersey State Village for Epileptics, at $150,000.

Md., Baltimore—Contract awarded to CONSOLIDATED ENGINEERING CO., at $160,000, for 2½-story engineering building for Johns Hopkins University.

D. C., Washington—Upton-Smoot Construction Co., Washington Loan and Trust Bldg., Washington, is low bidder at $50,000, for Casualty Hospital.

Va., Lexington—Contract for three-story brick building for Virginia Military Institute awarded to J. L. CROUSE, Greensboro, N. C., at $90,000. Noted Sept. 30.

Va., Roanoke—(Official)—Bids were received Oct. 8 for auditorium, armory and convention hall: C. H. Turner, $41,274; C. F. Fields, $41,840, and A. L. Marshall, $42,846. Noted Sept. 30.

Ky., Louisville—(Official)—Contract awarded to MODERN BUILDING CO., 519 East Broadway, Louisville, at $42,398, for alterations and additions to Central Colored High School. J. Earl Henry, Arch. Noted Sept. 30.

Ohio, Akron—Clemmer & Johnson Co., Hicksville, submitted lowest bid for armory. Estimated cost between $142,000 and $171,000.

Ohio, Cleveland—Contract awarded to C. N. GRIFFIN CO., 3111 Carnegie Ave., Cleveland, at about $215,000, for school on Elmira Ave., by Board of Education. Noted Sept. 9.

Ohio, Cleveland—Contract awarded to GEORGE A. RUTHERFORD CO., 2160 East 18th St., Cleveland, at about $40,000, for two-story bank building at East 79th St. and St. Clair Ave., for Garfield Savings Co. Noted Sept. 30.

Ohio, Washington C. H.—(Official)—Contract awarded to CULLEN & VAUGHN CO., Hamilton, by Baltimore and Ohio Western R.R. Co., for passenger station. Noted Sept. 30.

Mo., St. Joseph—J. W. Lehr, 1712 Frederick Ave., at $50,000, was low bidder for Physician's and Surgeon's office and store at Seventh and Francis St. Noted Oct. 7.

Tex., Galveston—Contract awarded to BROWN & VUILLEMIN at $100,000, for improvements and extensions to John Sealy Hospital.

Tex., Huntsville—Contract awarded to GOSS CONSTRUCTION CO., Waco, at $68,000, by Board of Regents of State Normal School for science building at Sam Houston Normal school.

Tex. Laredo—Contract awarded to LOUIS V. JAMBERS & CO., San Antonio, at $50,000, for bank building for Laredo National Bank.

Calif., San Pedro—Contract awarded to A. S. O'NEIL at $43,000 for high school.

Wash., Seattle—Contract awarded to HANS PETERSON at $130,113, for Masonic Temple at Harward Ave. and Pine St. Noted Sept. 9.

Calif., Los Angeles—Contract awarded to ALTA PLANING MILL CO., 830 McGarry St., at $87,000, for seven-story and basement apartment hotel at Lake and Sixth St. for James H. Edmonds, 709 Kingsley Drive.

Calif, Maricopa—Contract awarded to FRED GRIBBLE for high school.

Calif., San Francisco—Contract awarded to LINDGREN CO., at $414,000, by Board of Library Trustees for public library.

Wash., Sedro Woolley—(Official)—Contract awarded to WARRACK CONSTRUCTION CO., Seattle, at $134,763, for hospital buildings at Northern Hospital at Norlum, near Sedro Wolley. Noted Sept. 16.

Ont., Windsor—Contract awarded to P. H. SECORD & SONS, LTD., Brantford, for bank building at Ouellette Ave. and Catham St. for Merchants Bank of Canada. Estimated cost, $100,000.

SEWER SYSTEM, SOUTH BOUND BROOK, N. J.

Bids were received Oct. 11 by the Borough Council for constructing a sewer system from (A) ALLEN ENGINEERING CO., Newark (awarded contract); (B) Utility Construction Co., New Brunswick; (C) Louis J. Seiling, Red Bank; (D) D. M. Rosser, Kingston, Penn.; (E) Charles Ippolito, Oranfe; (F) Louis B. Harrison, 220 Broadway, New York, N. Y.; (G) Edward L. Bader, Atlantic City; (H) Hayman & Goodman Co., Jersey City; (I) John W. Heller, South Orange; (J) Averill-Mathews, Newark; (K) Dock Contractor Co., Hoboken. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J	K
2,000 lin.ft. 8-in. sewer pipe, 0-6 ft. deep	$0 50	$0 49	$0 40	$0 70	$0 49	$0 45	$0 50	$0 50	$0 60	$0 60	$1 80
11,250 lin.ft. 8-in. sewer pipe, 6-8 ft. deep	70	58	42	85	63	65	57	50	90	75	2 10
1,825 lin.ft. 8-in. sewer pipe, 8-10 ft. deep	85	62	60	1 00	93	90	83	1 40	1 20	1 00	2 40
100 lin.ft. 8-in. sewer pipe, 10-12 ft. deep	85	5	1 00	1 20	1 60	1 50	1 30	2 00	1 50	1 30	3 65
100 lin.ft. 8-in. sewer pipe, 12-14 ft. deep	90	1 35	1 50	1 65	2 50	2 00	2 60	2 40	2 00	1 70	4 30
100 lin.ft. 8-in. sewer pipe, 14 ft. deep and over	1 10	2 60	2 50	2 20	3 00	2 50	2 90	3 50	3 50	2 20	4 00
125 lin.ft. 10-in. sewer pipe, 0-6 ft. deep	55	57	44	75	61	50	63	65	75	70	2 00
225 lin.ft. 10-in. sewer pipe, 6-8 ft. deep	75	65	60	90	69	70	82	65	1 15	90	2 30
125 lin.ft. 10-in. sewer pipe, 8-10 ft. deep	85	75	80	1 25	1 16	1 00	88	1 60	1 40	1 15	2 60
125 lin.ft. 10-in. sewer pipe, 10-12 ft. deep	95	1 00	1 20	1 75	1 60	1 55	1 72	2 20	1 70	1 50	3 95
100 lin.ft. 10-in. sewer pipe, 12-14 ft. deep	1 10	1 48	1 60	2 00	2 60	2 05	2 30	2 60	2 30	2 00	4 60
25 lin.ft. 10-in. sewer pipe, 14 ft. deep and over	1 25	3 40	2 40	2 25	3 00	2 55	4 00	4 00	3 75	2 50	5 20
1,000 lin.ft. 12-in. sewer pipe, 0-6 ft. deep	65	68	50	80	73	75	69	80	1 05	80	2 10
1,100 lin.ft. 12-in. sewer pipe, 6-8 ft. deep	90	84	65	80	81	90	87	80	1 40	1 05	2 45
550 lin.ft. 12-in. sewer pipe, 8-10 ft. deep	1 25	1 06	1 00	95	1 16	1 10	1 00	1 80	1 70	1 50	2 90
460 lin.ft. 12-in. sewer pipe, 10-12 ft. deep	1 30	1 30	1 30	1 25	1 58	1 60	2 90	2 40	2 00	1 80	4 30
700 lin.ft. 12-in. sewer pipe, 12-14 ft. deep	1 60	1 58	2 00	1 75	1 90	2 50	3 60	2 70	2 50	2 30	4 90
225 lin.ft. 12-in. sewer pipe, 14-16 ft. deep	2 00	3 50	2 80	2 00	3 00	3 00	3 90	4 00	3 10	2 90	5 50
200 lin.ft. 12-in. sewer pipe, 16 ft. deep and over	2 25	3 85	3 50	2 25	3 25	4 00	4 40	4 50	4 25	3 50	6 10
72 0-8 ft. manholes	37 00	39 00	70 00	2 50	37 00	50 00	50 00	50 00	42 00	40 00	61 00
50 8-ft. manholes	3 00	5 50	7 00	45 00	4 00	5 00	7 00	3 00	5 00	5 00	6 35
2 siphon chambers	50 00	260 00	680 00	450 00	200 00	700 00	550 00	400 00	500 00	470 00	500 00
6 ton c.i. pipe	40 00	49 00	50 00	35 00	55 00	25 00	65 00	40 00	45 00	50 00	50 00
2,000 waterproof joints	20	25	15	15	15	15	14	20	20	15	18
Fill, per cu.yd	75	85	50	1 00	1 00	1 00	1 00	75	50	30	60
200 ft. 5-in. deep holes	35	38	25	20	1 00	50	21	30	50	30	20
10 cu.yd. concrete	8 50	12 00	14 00	8 00	10 00	10 00	20 00	10 00	10 00	7 00	8 00
Sewage disposal plant (lump sum)	7,000 00	7,490 00	8,700 00	6,500 00	9,300 00	6,000 00	9,160 00	9,500 00	10,000 00	9,490 00	8,480 00
Sludge bed (lump sum)	800 00	1,000 00	1,300 00	1,500 00	525 00	4,000 00	690 00	500 00	800 00	906 00	1,220 00
Extended totals	$28,020	$28,068	$29,733	$30,633	$30,847	$32,769	$33,597	$33,447	$34,162	$38,465	$64,292

RESURFACING, NEWARK, N. J.

Bids were received Oct. 7 by the Board of Chosen Freeholders for resurfacing Sussex Ave. from Summit to Warren St. from (A) Newton Paving Co.; (B) U. T. S. Critchfield; (C) Uvalde Asphalt Co.; (D) Ralph Sangiovanni; (E) Continental Public Works Co.; (F) Union Paving Co.; (G) Standard Bitulithic Co. The item bids were as follows:

	A	B	C	D	E	F	G
21,200 sq.yd. asphalt resurfacing	$1.14	$0.99	$1.10	$1.29	$1.09	$1.04	$1.07
250 sq.yd. asphalt on old concrete	1.25	.90	1.00	1.00	1.25	1.25	1.00
150 sq.yd. brick on old concrete	2.25	.40	.75	1.50	1.40	1.25	2.00
200 lin.ft. curb 16x5 in.	.70	.70	.80	.72	.75	.75	.70
50 lin.ft. old curb	.30	.35	.30	.30	.35	.45	.30
5 basins with single inlet	100.00	60.00	80.00	85.00	85.00	85.00	95.00
6 basins with old connections	90.00	75.00	75.00	65.00	80.00	85.00	80.00
4 basins with double inlet	90.00	80.00	85.00	100.00	90.00	95.00	100.00
7,500 sq.ft. artificial stone walk	.13	.18	.20	.13	.16½	.16	.12½
Extended totals	$27,438	$23,850	$26,547	$30,172	$26,300	$25,235	$25,781

CATALOG NOTICES

Link-Belt Co., 39th St. and Stewart Ave., Chicago, Ill. General Catalog No. 110. Elevating and conveying machinery, power transmission machinery, crushers, etc. Illustrated, 576 pp., 6½x9½ in.

Alberger Pump and Condenser Co., 140 Cedar St., New York. Bulletin No. 20. Hammond water meters. Illustrated, 24 pp., 6x9 in.

The Master Builders Co., Cleveland, Ohio. Booklet. Saniseal. Liquid preparation for preserving and hardening concrete floors. 8 pp., 3½x7 in.

Bolinders Co., 30 Church St., New York. Catalog No. 1700. Crude oil engines for auxiliary trading vessels. Illustrated, 16 pp., 9x12 in. Catalog in English, Swedish, German, French, Russian. Boilers, steam engines, steam turbines, oil engines, sawmill machinery, etc. Illustrated, 9x12 in.

A. S. Cameron Steam Pump Works, 11 Broadway, New York. Bulletin No. 154. Centrifugal pumps. Illustrated, 16 pp., 6x9 in.

Stephens-Adamson Mfg. Co., Aurora, Ill. Catalog No. 22. "S-A" pivoted bucket carrier. Illustrated, 84 pp., 6x9 in.

Alberger Pump & Condenser Co., 140 Cedar St., New York. Bulletin No. 21. Alberger centrifugal boiler feed pumps. Alberger-Curtis steam turbines. Illustrated, 26 pp., 6x9 in.

SKF Ball Bearing Co., 50 Church St., New York. Bulletin No. 45. SKF ball bearings for car lighting generators. Illustrated, 32 pp., 6x9 in.

PAVING, MEMPHIS, TENN.

Bids were received by the city for paving Main St. from Linden to Calhoun Ave. with wood block, from (A) Koehler Bros.-Fowler Construction Co.; (B) E. J. Wetterstrom; (C) M. E. Larkin; (D) Turner & Thomas; (E) Southern Asphalt and Construction Co.; (F) George O. White & Co.; (G) Memphis Asphalt and Paving Co.; (H) Pugh & Thompson Construction Co.; (I) Pouncey Paving and Construction Co. The item bids were as follows:

	A	B	C	D	E	E	G	H	I
9,200 sq.yd. stone block, brick, etc., removed	$0.095	$0.10	$0.08	$0.08	$0.11	$0.20	$0.10	$0.15	$0.10
128.6 lin.ft. c.i. drain boxes removed	.40	.20	.60	.08	.05	1.00	.80	.60	.50
320 lin.ft. 6x20 in. granite curb removed, shifted and set	.15	.15	.10	.12	.12	.125	.12	.25	.10
320 lin.ft. 6x20 in. granite curb removed	.09	.05	.06	.08	.09	.10	.10	.15	.10
11 solid curb corners removed	.25	1.00	.50	1.00	.50	1.00	1.00	.75	1.50
1 solid curb corner adjusted	.75	2.00	1.00	1.00	1.00	1.00	1.00	.75	1.00
9,200 sq.yd. wood block pavement	1.63	1.65	1.72	1.75	1.73	1.36	1.74	1.68	1.78
9,200 sq.yd. wood block pavement maintenance 5 years	.01	.04	.02	.02	.015	.01	.03	.01	.02
248 lin.ft. 6x20 in. granite radius corners furnished and set	.75	.65	.75	.75	.60	1.00	.75	.90	.80
240 lin.ft. 4x16 in., 104x20 in. granite headers furnished and set	.50	.40	.40	.50	.45	.50	.45	.48	.50
1,100 cu.yd. concrete foundation bushing	4.20	3.95	4.00	3.89	4.00	6.00	4.20	4.40	4.00
4,320 sq.ft. concrete sidewalk removed	.02	.01	.02	.02	.015	.10	.02	.02	.02
4,320 sq.ft. concrete sidewalk laid	.125	.13	.12	.11	.14	.10	.12	.125	.12
735 lin.ft. 18 in. drain pipe laid	.40	.70	.45	.35	.40	.50	.60	.55	.80
100 lin.ft. 15 in. drain pipe laid	.40	.60	.30	.35	.30	.40	.45	.55	.75
1 inlet reconstructed	20.00	15.00	20.00	15.00	20.00	70.00	10.00	22.50	10.00
8 No. 7 inlets	20.00	17.00	19.00	20.00	20.00	30.00	20.00	22.50	18.00
2 man holes	22.00	30.00	25.00	22.50	22.50	30.00	20.00	20.00	20.00
Extended totals	$22,204	$22,563	$22,748	$22,765	$23,011	$23,226	$23,604	$23,649	$24,796

TEMPLE, HILLCREST, LORETTE AND ELGIN ST. SEWERS —BOSTON, MASS.

Bids were received June 15 by Patrick O'Hearn, Acting Comr. of Pub. Wks., for the construction of sewers in Temple, Hillcrest, Lorette and Elgin St., from: (A) M. Meehan, (B) A. CEFALO (awarded contract), (C) A. Baruffaldi, (D) West Roxbury Trap Rock Co., (E) Merrimac Construction Co., (F) W. Barrett & Co., (G) McCarthy & Welch, (H) Bruno & Petetti, (I) Coleman Bros., (J) Engineer's Estimate. The item bids were as follows:

	A	B	C	D	E	F	G	H	I	J
493 lin.ft. 18-in. double strength pipe sewer	$3.50	$3.00	$3.80	$6.00	$4.10	$2.75	$6.27	$4.00	$5.00	$4.50
525 lin.ft. 15-in. pipe sewer	.75	.70	1.00	1.00	1.25	1.20	2.52	2.00	2.80	1.20
438 lin.ft. pipe sewers and 431 lin.ft. 2-ft., 3-in. circular concrete surface drain and removal of old sewer	2.33	2.40	3.00	2.50	3.00	3.41	4.77	4.00	2.00	2.85
1020 lin.ft. 8-in. pipe sewer, 379 lin.ft. of 18-in. double strength, 302 lin. ft. of 13-in. pipe and 151 lin.ft. of 12-in. pipe and 292 lin.ft. of 10-in. pipe surface drain	1.00	1.40	1.80	2.00	2.10	2.50	2.62	3.00	3.40	1.65
199 lin.ft. 15-in. pipe surface drain	.70	.70	1.35	.90	1.00	1.25	2.27	1.00	2.00	.80
220 lin.ft. 12-in. pipe surface drain	.60	.70	1.00	.85	.90	1.15	2.00	1.00	2.00	.70
840 lin.ft. 10-in. pipe surface drain	.50	.50	1.50	.75	.90	1.00	2.00	.90	2.00	.65
322 lin.ft. 6-ft. circular concrete conduit	6.00	3.75	15.50	10.00	4.40	5.25	7.77	6.00	9.00	4.50
128 lin.ft. 5 ft. 3-in. circular concrete conduit and 121 lin.ft. 18-in. double strength pipe sewer	8.40	5.25	8.00	13.00	7.00	7.75	10.00	8.00	9.00	6.65
390 lin.ft. 5-ft. circular concrete conduit and 21 lin.ft. 18-in. double strength and 369 lin.ft. pipe sewer	8.40	5.00	6.00	7.50	6.70	7.75	9.50	8.00	9.50	6.30
501 lin.ft. 4 ft. 3-in. circular concrete conduit, 462 lin.ft. and 30 lin. ft. of 12-in. pipe sewer	3.60	2.25	3.50	3.00	3.75	3.15	4.77	5.00	4.00	2.50
229 lin.ft. 3-ft., 9-in. circular concrete conduit, 247 lin.ft. 12-in. pipe sewer	2.60	2.50	3.50	3.00	3.00	3.15	5.00	6.00	4.00	3.40
715 lin.ft. 3-ft., 6-in. circular concrete conduit, 727 lin.ft. 12-in. pipe sewer	5.00	4.50	6.50	4.25	6.75	6.15	10.00	8.00	6.00	6.60
500 cu.yd. earth excavation below grade		3.00	.01	3.00	1.50	1.50	1.50	1.00	2.00	1.25
100 cu.yd. earth excavation above grade in outside trench	1.00		.01	.50	.75	1.25	1.00	.75	1.00	1.00
2300 cu.yd. rock		6.00	.01	5.00	4.00	4.00		3.00	3.00	5.00
600 cu.yd. gravel refill	1.00		.01	2.00	.50	1.75	1.25	1.00	.90	1.40
175 M ft. b.m. spruce lumber for sheeting	16.00		25.00	.01	40.00	25.00	24.00	20.00	20.00	27.00
40 M ft. b.m. 2-in. planed and matched sheeting	35.00	40.00		.01	50.00	30.00		25.00	40.00	40.00
25 M ft. b.m. 3-in. planed Georgia pine	35.00			.01	.01	35.00		25.00	40.00	50.00
16 M ft. b.m. spruce lumber for platforms	35.00			.01	.01	10.00	25.00		40.00	40.00	40.00
5400 lin.ft. pipe under drain	.60	.25	.25	.10	.15	.25	.15	.75	.20	.15
4000 cu.yd. class A concrete	7.00	6.50	7.00	6.00	6.50	7.00	6.85	7.00	7.00	7.50
300 lin.ft. 10-in. pipe catch basins drain	.50	.50	.50	.50	.60	.75	.75	1.00	1.00	.10
1600 lin.ft. 6-in. pipe for chimneys	.25	.10	.10	.05	.10	.10	.15	.05	.10	.15
300 lin.ft. 6-in. pipe house drain in main trench	1.00	.25	.01	1.00	.10	.25	.20	.60	.75	.25
26 lin.ft. 6-in. pipe house drain	2.00	.50	.01	.50	1.50	1.00		.60	.75	.60
250 lin.ft. house drain relaid	1.00	.50	.01	1.00	.50	1.00	1.00	.60	1.00	.60
330 slants in new masonry	.05	.10	.01	.10	.05	.10	.10	.10	.10	.15
70 lin.ft. 8 and 10-in. pipe sewer connected	1.00	.50	.01	.50	.25	1.00	1.00	.75	1.00	.25
22 manholes in sewer	45.00	40.00	50.00	50.00	60.00	35.00	75.00	35.00	.75	45.00
30 manholes on surface drain	45.00	35.00	40.00	50.00	35.00	30.00	40.00	35.00	.60	36.00
6 special manholes on sewer	50.00	70.00	60.00	50.00	65.00	35.00	100.00	35.00	125.00	85.00
4 special manholes on surface drain	50.00	75.00	50.00	50.00	45.00	35.00	100.00	35.00	110.00	75.00
20 catch basins	45.00	45.00	50.00	50.00	45.00	50.00	50.00	40.00	50.00	50.00
1 armhole invert rebuilt	40.00	5.00	.01	5.00	10.00	10.00	5.00	40.00	20.00	5.00
10 cu.yd. other brick masonry	18.00		.01	.01		15.00	14.00	15.00	16.00	14.00
1 connection between new and existing conduit	20.00	10.00	10.00	10.00	10.00	10.00	10.00	5.00	15.00	10.00
1 cradle for pipe not exceeding 16-in. diam		10.00	10.00	5.00	10.00	5.00		10.00	40.00	10.00
1 cradle for pipe exceeding 16-in. diam		10.00	10.00	5.00	10.00	5.00		10.00	40.00	10.00
[illegible] strength pipe at % discount	75%	78%	75%	75%	72%	70%	73%	75%	63%	70%
$2400 list value double strength pipe at % discount	70%	65%	75%	65%	60%	60%	66%	70%	57%	55%
100 lin.ft. of 10-in., 30-in. pipe for brook construction and setting grates	3.00	.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	.50
Extended totals	$70,358	$70,252	$72,457	$76,429	$79,250	$82,562	$82,807	$83,612	$88,661	$85,153